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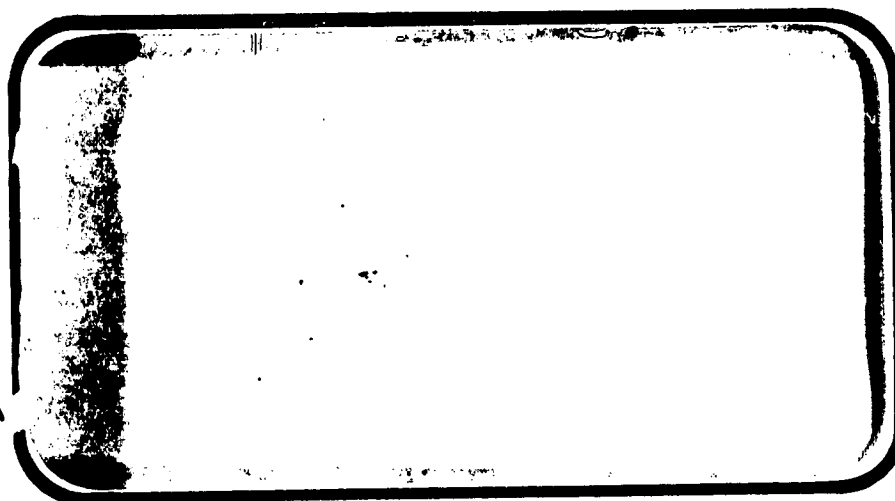
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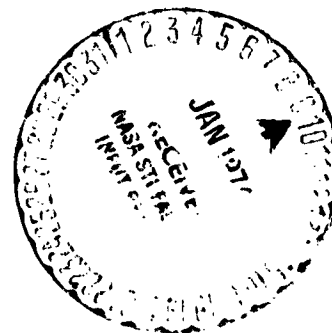
CSCL 22B

NASA-CR-128794-vol-5) RESULTS OF TESTS
CA12 AND IAS IN THE AMES RESEARCH CENTER
UNITARY PLAN WIND TUNNELS ON AN
0.030-SCALE MODEL OF THE SPACE (CHRYSLER
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SPACE SHUTTLE

AEROTHERMODYNAMIC DATA REPORT



JOHNSON SPACE CENTER

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SPACE DIVISION



CHRYSLER
CORPORATION

October, 1973

DMS-DR-2032
NASA CR-128,794

VOLUME 5 of 18

RESULTS OF TESTS OA12 AND IA9 IN THE
AMES RESEARCH CENTER UNITARY PLAN WIND TUNNELS
ON AN 0.030-SCALE MODEL OF THE SPACE SHUTTLE
VEHICLE 2A TO DETERMINE AERODYNAMIC LOADS

By

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Prepared under NASA Contract Number NAS9-13247

By

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New Orleans, Louisiana 70189

for

Engineering Analysis Division

Johnson Space Center
National Aeronautics and Space Administration
Houston, Texas

WING TUNNEL TEST SPECIFICS:

Test Numbers: ARC 11-707 (A)
 ARC 97-707 (B)
 ARC 87-707 (C)
NASA Series Numbers: IA9A, B, C and
 OA12A, C
Test Date: 2 April - 17 May, 1973

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RESULTS OF TESTS OA12 AND IA9 IN THE
AMES RESEARCH CENTER UNITARY PLAN WIND TUNNELS
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ABSTRACT

Tests were conducted in the NASA/ARC Unitary Plan Wind Tunnels during April and May 1973, on an 0.030-scale replica of the Space Shuttle Vehicle Configuration 2A. Aerodynamic loads data were obtained at Mach numbers from 0.6 to 3.5.

The investigation included Tests IA9A, B and C on the integrated (launch) configuration and Tests OA12A and C on the isolated orbiter (entry configuration). The integrated vehicle was tested at angles of attack and sideslip from -8 degrees to +8 degrees. The isolated orbiter was tested at angles of attack from -15 degrees to +40 degrees and angles of sideslip from -10 degrees to +10 degrees as dictated by trajectory considerations. The effects of orbiter/external tank incidence angle and deflected control surfaces on aerodynamic loads were also investigated.

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		i_0	α	β	ϕ_R		
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<u>Test IA9A</u> Longitudinal Distribution of Orbiter Fuselage Pressures	<u>CP vs X/LB</u>	1.5	A	0	0	<u>PHI, MACH, ALPHA</u>	1-24
		0.5	A	0	0		25-54
		-1.2	A	0	0		55-78
		0.5	-8	E	0	<u>PHI, MACH, BETA</u>	79-102
		0.5	-4	E	0		103-126
		0.5	0	E	0		127-156
		0.5	4	E	0		157-180
		0.5	8	E	0		181-204
		0.5	0	E	-5		205-216
		0.5	0	E	-10		217-228
Longitudinal Distribution of External Tank Pressures	<u>CP vs X/LT</u>	0.5	0	E	-15		229-240
		1.5	A	0	0	<u>PHI, MACH, ALPHA</u>	241-264
		0.5	A	0	0		265-294
		-1.2	A	0	0		295-318

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TITLE	TYPE OF PLOT	PARAMETERS i_0 α β δR	CONDITIONS VARYING	PAGES
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		0.5 -4 E 0		343-366
		0.5 0 E 0		367-396
		0.5 4 E 0		397-420
		0.5 8 E 0		421-444
Longitudinal Distribution of SRM Booster Pressures	CP vs X/LS	1.5 A 0 0	<u>PHI, MACH, ALPHA</u>	445-460
		0.5 A 0 0		461-480
		-1.2 A 0 0		481-496
		0.5 -8 E 0	<u>PHI, MACH, BETA</u>	497-512
		0.5 -4 E 0		513-528
Chordwise Distribution of Upper and Lower Surface Wing Pressures	CP vs X/CW	0.5 0 E 0		529-548
		0.5 4 E 0		549-564
		0.5 8 E 0		565-580
		1.5 A 0 0	<u>Y/BW, MACH, ALPHA</u>	581-596
		0.5 A 0 0		597-616
		-1.2 A 0 0		617-632
		0.5 -8 E 0	<u>Y/BW, MACH, BETA</u>	633-648

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TITLE	TYPE OF PLOT	PARAMETERS α β δR	CONDITIONS VARYING	PAGES
Chordwise Distribution of Upper and Lower Surface Wing Pressures	CP vs X/CW	0.5 -4 E 0	Y/BV, MACH, BETA	649-664
		0.5 0 E 0		665-684
		0.5 4 E 0		685-700
		0.5 8 E 0		701-716
Chordwise Distribution of Left and Right Surface Vertical Tail Pressures	CP vs X/CV	0.5 A 0 0	Z/BV, MACH, ALPHA	717-736
		0.5 -8 E 0	Z/BV, MACH, BETA	737-752
		0.5 -4 E 0		753-768
		0.5 0 E 0		769-788
		0.5 4 E 0		789-804
		0.5 8 E 0		805-820
		0.5 -8 E -5		821-828
		0.5 0 E -5		829-836
		0.5 8 E -5		837-844
		0.5 -8 E -10		845-852
		0.5 0 E -10		853-860
		0.5 8 E -10		861-868
		0.5 -8 E -15		869-876

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TITLE	TYPE OF PLOT	PARAMETERS i.o. α β ϕ_R	CONDITIONS VARYING	PAGES
Chordwise Distribution of Left and Right Surface Vertical Tail Pressures	CP vs X/CV ↓	0.5 0 E -15 0.5 8 E -15	Z/BV, MACH, BETA Z/BV, MACH, BETA	877-884 885-892
Orbiter Base Pressures	CP vs ALPHA	0.5 B 0 0	MACH, ALPHA	893-902
Orbiter Base Pressures	CP vs BETA	0.5 0 F 0	MACH, BETA	903-912
Upper MPS Nozzle Pressures	CP vs ALPHA	0.5 B 0 0	PHI, MACH, X/LMP	913-917
Upper MPS Nozzle Pressures	CP vs BETA	0.5 0 F 0	PHI, MACH, X/LMP	918-922
OMS Nozzle Pressures	CP vs ALPHA	0.5 B 0 0	PHI, MACH X/LNM	923-927
OMS Nozzle Pressures	CP vs BETA	0.5 0 F 0	PHI, MACH X/LNM	928-932
SPM Booster Base Pressures	CP vs ALPHA	0.5 B 0 0	PHI, MACH, X/LS	933-937
SRM Booster Base Pressures	CP vs BETA	0.5 0 F 0	PHI, MACH, X/LS	938-942
External Tank Base Pressures	CP vs ALPHA	0.5 B 0 0	PHI, MACH, X/LT	943-947
External Tank Base Pressures	CP vs BETA	0.5 0 F 0	PHI, MACH, X/LT	948-952
VOLUME 5				
Test IA9B				
Longitudinal Distribution of Orbiter Fuselage Pressures	CP vs X/LB ↓	0.5 A 0 0 0.5 8 I 0 0.5 4 I 0	PHI, MACH, ALPHA PHI, MACH, BETA ↓	1-12 13-24 25-36

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TITLE	TYPE OF PLOT	PARAMETERS 10 α β δR	CONDITIONS VARYING	PAGES
Longitudinal Distribution of Orbiter Fuselage Pressures	CP vs X/LB	0.5 0 I 0	<u>PHI, MACH, BETA</u>	37-48
		0.5 -4 I 0		49-60
		0.5 -8 I 0		61-72
		0.5 0 E -15		73-84
		0.5 0 E -10		85-96
		0.5 0 E 15		97-108
Longitudinal Distribution of External Tank Pressures	CP vs X/LT	0.5 A 0 0	<u>PHI, MACH, ALPHA</u>	109-120
		0.5 8 I 0	<u>PHI, MACH, BETA</u>	121-132
		0.5 4 I 0		133-144
		0.5 0 I 0		145-156
		0.5 -4 I 0		157-168
		0.5 -8 I 0		169-180
Longitudinal Distribution of SPM Booster Pressures	CP vs X/LB	0.5 A 0 0	<u>PHI, MACH, ALPHA</u>	181-188
		0.5 8 I 0	<u>PHI, MACH, ALPHA</u>	189-196
		0.5 4 I 0	<u>PHI, MACH, BETA</u>	197-204
		0.5 0 I 0	<u>PHI, MACH, BETA</u>	205-212

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TITLE	TYPE OF PLOT	PARAMETERS i_0 α β ϕ_R	CONDITIONS VARYING	PAGES
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		0.5 -8 I 0	PHI, MACH, BETA	221-228
Chordwise Distribution of Upper and Lower Surface Wing Pressures	CP vs X/CW ↓	0.5 A 0 0	Y/BW, MACH, ALPHA	229-236
		0.5 8 I 0	Y/BW, MACH, BETA	237-244
		0.5 4 I 0	↓	245-252
		0.5 0 I 0	↓	253-260
		0.5 -4 I 0	↓	261-268
		0.5 -8 I 0	↓	269-276
Chordwise Distribution of Left and Right Surface Vertical Tail Pressures	CP vs X/CV ↓	0.5 A 0 0	Z/BV, MACH, ALPHA	277-284
		0.5 8 I 0	Z/BV, MACH, BETA	285-292
		0.5 4 I 0	↓	293-300
		0.5 0 I 0	↓	301-308
		0.5 -4 I 0	↓	309-316
		0.5 -8 I 0	↓	317-324
		0.5 -8 E -15	↓	325-332
		0.5 0 E -15	↓	333-340

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TITLE	TYPE OF PLOT	PARAMETERS 1.0 α β ϕ R	CONDITIONS VARYING	PAGES
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		0.5 -8 E -10		349-356
		0.5 0 E -10		357-364
		0.5 8 E -10		365-372
		0.5 -8 E 15		373-380
		0.5 0 E 15		381-388
		0.5 8 E 15		389-396
Orbiter Base Pressures	CP vs ALPHA	0.5 B 0 0	MACH, ALPHA	397-400
Orbiter Base Pressures	CP vs BETA	0.5 0 G 0	MACH, BETA	401-404
Upper MPS Nozzle Pressures	CP vs ALPHA	0.5 B 0 0	PHI, MACH, X/LNP	405-406
Upper MPS Nozzle Pressures	CP vs BETA	0.5 0 G 0	PHI, MACH, X/LNP	407-408
OMS Nozzle Pressures	CP vs ALPHA	0.5 B 0 0	PHI, MACH, X/LNM	409-410
OMS Nozzle Pressures	CP vs BETA	0.5 0 G 0	PHI, MACH, X/LNM	411-412
SRM Booster Base Pressures	CP vs ALPHA	0.5 B 0 0	PHI, MACH, X/LS	413-414
SRM Booster Base Pressures	CP vs BETA	0.5 0 G 0	PHI, MACH, X/LS	415-416
External Tank Base Pressures	CP vs ALPHA	0.5 B 0 0	PHI, MACH, X/LT	417-418
External Tank Base Pressures	CP vs BETA	0.5 0 G 0	PHI, MACH, X/LT	419-420

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TITLE	TYPE OF PLOT	PARAMETERS				CONDITIONS VARYING	PAGES
		i_0	α	β	θ_R		
<u>Test IA9C</u>							
Longitudinal Distribution of Orbiter Fuselage Pressures	<u>CP vs X/LB</u>	0.5	A	0	0	PHI, MACH, ALPHA	421-438
		0.5	-8	E	0	<u>PHI, MACH, BETA</u>	439-456
		0.5	-4	E	0		457-474
		0.5	0	E	0		475-492
		0.5	4	E	0		493-510
		0.5	8	E	0		511-528
		0.5	0	E	-15		529-546
		0.5	0	E	-10		547-564
Longitudinal Distribution of External Tank Pressures	<u>CP vs X/LT</u>	0.5	A	0	0	PHI, MACH, ALPHA	565-582
		0.5	-8	E	0	<u>PHI, MACH, BETA</u>	583-600
		0.5	-4	E	0		601-618
		0.5	0	E	0		619-636
		0.5	4	E	0		637-654
		0.5	8	E	0		655-672

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Longitudinal Distribution of SRM Booster Pressures	CP vs X/LS	0.5 A 0 0	PHI, MACH, ALPHA	673-684
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		0.5 -4 E 0		697-708
		0.5 0 E 0		709-720
		0.5 4 E 0		721-732
		0.5 8 E 0		733-744
Chordwise Distribution of Upper and Lower Surface Wing Pressures	CP vs X/CW	0.5 A 0 0	Y/BW, MACH, ALPHA	745-756
		0.5 -8 E 0	Y/BW, MACH, BETA	757-767
		0.5 -4 E 0		768-780
		0.5 0 E 0		781-792
		0.5 4 E 0		793-804
		0.5 8 E 0		805-816
Chordwise Distribution of Left and Right Surface Vertical Tail Pressures	CP vs X/CV	0.5 A 0 0	Z/BV, MACH, ALPHA	817-828
		0.5 -8 E 0	Z/BV, MACH, BETA	829-840
		0.5 -4 E 0		841-852
		0.5 0 E 0		853-864
		0.5 4 E 0		865-876

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TITLE	TYPE OF PLOT	PARAMETERS I ₀ α β φ R	CONDITIONS VARYING	PAGES
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		0.5 -8 E -15		889-900
		0.5 0 E -15		901-912
		0.5 8 E -15		913-924
		0.5 -8 E -10		925-936
		0.5 0 E -10		937-948
		0.5 8 E -10		949-960
Orbiter Base Pressures	CP vs ALPHA	0.5 B 0 0	MACH, ALPHA	961-966
Orbiter Base Pressures	CP vs BETA	0.5 0 H 0	MACH, BETA	967-972
Upper MPS Nozzle Pressures	CP vs ALPHA	0.5 B 0 0	PHI, MACH, X/LNP	973-975
Upper MPS Nozzle Pressures	CP vs BETA	0.5 0 H 0	PHI, MACH, X/LNP	976-978
OMS Nozzle Pressures	CP vs ALPHA	0.5 B 0 0	PHI, MACH, X/LNM	979-981
OMS Nozzle Pressures	CP vs BETA	0.5 0 H 0	PHI, MACH, X/LNM	982-984
SRM Booster Base Pressures	CP vs ALPHA	0.5 B 0 0	PHI, MACH, X/LS	985-987
SRM Booster Base Pressures	CP vs BETA	0.5 0 H 0	PHI, MACH, X/LS	988-990
External Tank Base Pressures	CP vs ALPHA	0.5 B 0 0	PHI, MACH, X/LT	991-993
External Tank Base Pressures	CP vs BETA	0.5 0 H 0	PHI, MACH, X/LT	994-996

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TITLE	TYPE OF PLOT	PARAMETERS					CONDITIONS VARYING	PAGES
		α	β	δ_e	δ_R	δ_{RF}		
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<u>Test QAL2A</u> Longitudinal Distribution of Orbiter Fuselage Pressure	<u>CP vs X/LB</u>	C	O	O	O	O	PHI, MACH, ALPHA	1-24
		O	J	O	O	O	PHI, MACH, BETA	25-36
		10	J	O	O	O		37-48
		20	J	O	O	O		49-60
		O	K	O	-10	O		61-78
		O	K	O	-20	O		79-96
		O	L	10	O	O		97-108
		O	K	-10	O	O		109-126
		O	K	-20	O	O		127-144
		O	K	O	O	40		145-162
Chordwise Distribution of Upper and Lower Surface Wing Pressures	<u>CP vs X/CW</u>	C	O	O	O	O	Y/BW, MACH, ALPHA	163-178
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		10	J	O	O	O		187-194
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		O	L	10	O	O		203-210

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TITLE	TYPE OF PLOT	PARAMETERS					CONDITIONS VARYING	PAGES
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Chordwise Distribution of Upper and Lower Surface Wing Pressures	CP vs X/CW	10	L	10	0	0	Y/BW, MACH, BETA	211-218
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		0	K	-10	0	0		227-238
		10	K	-10	0	0		239-250
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		0	K	-20	0	0		263-274
		10	K	-20	0	0		275-286
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Chordwise Distribution of Left and Right Surface Vertical Tail Pressures	CP vs X/CV	C	O	0	0	0	Z/BW, MACH, ALPHA	299-314
		0	J	0	0	0	Z/BW, MACH, BETA	315-322
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		20	J	0	0	0		331-338
		0	K	0	-10	0		339-350
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TITLE	TYPE OF PLOT	α	β	δe	δR	δRF	CONDITIONS VARYING	PAGES
Chordwise Distribution of Left and Right Surface Vertical Tail Pressures	CP vs X/CV	10	K	0	-20	0	Z/EV, MACH, BETA	387-398
		20	K	0	-20	0		399-410
		0	K	0	0	40		411-422
		10	K	0	0	40		423-434
		20	K	0	0	40		435-446
Orbiter Base Pressures	CP vs ALPHA	C	O	0	0	0	MACH, ALPHA	447-450
Orbiter Base Pressures	CP vs BETA	O	J	0	0	0	MACH, BETA	451-454
Upper MPS Nozzle Pressures	CP vs ALPHA	C	O	0	0	0	PHI, MACH, X/LNP	455-456
Upper MPS Nozzle Pressures	CP vs BETA	O	J	0	0	0	PHI, MACH, X/LNP	457-458
OMS Nozzle Pressures	CP vs ALPHA	C	O	0	0	0	PHI, MACH, X/LNM	459-460
OMS Nozzle Pressures	CP vs BETA	O	J	0	0	0	PHI, MACH, X/LNM	461-462
Test OAL2C								
Longitudinal Distribution of Orbiter Fuselage Pressures	CP vs X/LB	D	O	0	0	40	PHI, MACH, ALPHA	463-480
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		10	M	0	-20	40		499-516
		20	M	0	-20	40		517-534

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TITLE	TYPE OF PLOT	PARAMETERS				CONDITIONS VARYING	PAGES
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Longitudinal Distribution of Orbiter Fuselage Pressures	CP vs X/LB	30	M	0	0	40	535-552
		0	M	10	0	40	553-570
		0	M	-20	0	40	571-588
		0	M	-40	0	40	589-606
Chordwise Distribution of Upper and Lower Surface Wing Pressures	CP vs X/CN	D	O	0	0	40	607-618
		0	M	0	-20	40	619-630
		10	M	0	-20	40	631-642
		20	M	0	-20	40	643-654
		30	M	0	0	40	655-666
		0	M	10	0	40	667-678
		10	M	10	0	40	679-690
		20	M	10	0	40	691-702
		0	M	-20	0	40	703-714
		10	M	-20	0	40	715-726
		20	M	-20	0	40	727-738
		0	M	-40	0	40	739-750

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TITLE	TYPE OF PLOT	PARAMETERS					CONDITIONS VARYING	PAGES
		α	β	δe	δR	δRF		
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		20	M	-40	0	40	Y/EW, MACH, BETA	763-774
Chordwise Distribution of Left and Right Surface Vertical Tail Pressures	CP vs X/CV	D	0	0	0	40	Z/EV, MACH, ALPHA	775-786
		0	M	0	-20	40	Z/EV, MACH, BETA	787-798
		10	M	0	-20	40		799-810
		20	M	0	-20	40		811-822
		30	M	0	0	40		823-834
Orbiter Base Pressures	CP vs ALPHA	30	M	0	-20	40		835-846
		D	0	0	0	40	MACH, ALPHA	847-850
	CP vs BETA	0	M	0	-20	40	MACH, BETA	851-854
	CP vs ALPHA	D	0	0	0	40	PHI, MACH, X/LNP	855-856
	CP vs BETA	0	M	0	-20	40	PHI, MACH, X/LNP	857-858
ONS Nozzle Pressures	CP vs ALPHA	D	0	0	0	40	PHI, MACH, X/LNM	859-860
ONS Nozzle Pressures	CP vs BETA	0	M	0	-20	40	PHI, MACH, X/LNM	861-862

INDEX OF DATA FIGURES (CONCLUDED)

PARAMETER SCHEDULES:

ALPHA

- A) -4, 0, 4, 8 Degrees
- B) -8, -6, -4, -2, 0, 2, 4, 6, 8 Degrees
- C) -4, 0, 5, 10, 15, 20, 22.5 Degrees
- D) 0, 5, 10, 15, 20 Degrees

BETA

- E) -4, 0, 4, 8 or -4, 2, 4, 8 Degrees
- F) -8, -6, -4, -2, 0, 2, 4, 6, 8 Degrees
- G) -7, -5, 3, 5, 7, 9 Degrees
- H) -8, -6, -4, -2, 2, 4, 6, 8 Degrees
- I) -5, 5, 7, 9 or -6, 4, 6, 8 Degrees
- J) -10, -5, 5, 10 Degrees
- K) -8, -4, 0, 4, 8 Degrees
- L) -10, 0, 10 Degrees
- M) -6, -3, 0, 3, 6 Degrees

INTRODUCTION

The 0.030-scale Aero Loads Space Shuttle model was tested in the Unitary Plan Wind Tunnels at ARC starting April 2, and continuing through May 17, 1973 as follows:

IA9A	11-foot Transonic	April 2 to April 14, 1973
OA12A	11-foot Transonic	April 16 to April 29, 1973
IA9C	8x7-foot Supersonic	April 23 to May 1, 1973
OA12C	8x7-foot Supersonic	May 2 to May 8, 1973
IA9B	9x7-foot Supersonic	May 9 to May 17, 1973

The testing was conducted in all three legs of the Unitary Plan Wind Tunnels to obtain a Mach number range from 0.6 to 3.5. Aerodynamic loads data were obtained for the ascent and entry configurations. The effects of control surface deflections were also investigated.

This report consists of 3 volumes of force data and 15 volumes of pressure data for a total of 18 volumes arranged in the following manner:

<u>VOLUME NO.</u>	<u>CONTENTS</u>
1	IA9A force data
2	IA9B and IA9C force data
3	OA12A and OA12C force data
4	IA9A plotted pressure data
5	IA9B and IA9C plotted pressure data
6	OA12A and OA12C plotted pressure data
7	IA9A tabulated pressure data <ul style="list-style-type: none"> (a) orbiter fuselage (b) orbiter base (c) upper MPS nozzle
8	IA9A tabulated pressure data <ul style="list-style-type: none"> (a) OMS nozzle (b) body flap (c) OMS pod outside (d) lower wing surface
9	IA9A tabulated pressure data <ul style="list-style-type: none"> (a) upper wing surface (b) left vertical tail surface (c) right vertical tail surface (d) APU inlet (e) SRM booster base
10	IA9A tabulated pressure data <ul style="list-style-type: none"> (a) SRM booster (b) external tank (c) external tank base

INTRODUCTION (CONTINUED)

- 11 IA9B tabulated pressure data
 - (a) orbiter fuselage
 - (b) orbiter base
 - (c) upper MPS nozzle
 - (d) OMS nozzle
 - (e) body flap
 - (f) OMS pod outside
 - (g) lower wing surface
- 12 IA9B tabulated pressure data
 - (a) upper wing surface
 - (b) left vertical tail surface
 - (c) right vertical tail surface
 - (d) APU inlet
 - (e) SRM booster base
 - (f) SRM booster
 - (g) external tank
 - (h) external tank base
- 13 IA9C tabulated pressure data
 - (a) orbiter fuselage
 - (b) orbiter base
 - (c) upper MPS nozzle
 - (d) OMS nozzle
 - (e) body flap
 - (f) OMS pod outside
- 14 IA9C tabulated pressure data
 - (a) lower wing surface
 - (b) upper wing surface
 - (c) left vertical tail surface
 - (d) right vertical tail surface
- 15 IA9C tabulated pressure data
 - (a) APU inlet
 - (b) SRM booster base
 - (c) SRM booster
 - (d) external tank
 - (e) external tank base
- 16 OA12A tabulated pressure data
 - (a) orbiter fuselage
 - (b) orbiter base
 - (c) upper MPS nozzle
 - (d) OMS nozzle
 - (e) body flap
 - (f) OMS pod outside

INTRODUCTION (CONCLUDED)

- 17 OAI A tabulated pressure data
 - (a) lower wing surface
 - (b) upper wing surface
 - (c) left vertical tail surface
 - (d) right vertical tail surface
 - (e) APU inlet
- 18 OAI C tabulated pressure data
 - All components

NOMENCLATURE General

<u>SYMBOL</u>	<u>SI/USAC SYMBOL</u>	<u>DEFINITION</u>
a		speed of sound; m/sec, ft/sec
C_p	C_p	pressure coefficient; $(p_1 - p_\infty)/q$
M	MACH	Mach number; V/a
p		pressure; N/m ² , psf
q	q (NEM) q (PSF)	dynamic pressure; $1/2 \rho V^2$, N/m ² , psf
Re/L	Re/L	unit Reynolds number; per m, per ft
V		velocity; m/sec, ft/sec
α	ALPHA	angle of attack, degrees
β	BETA	angle of sideslip, degrees
ψ	PSI	angle of yaw, degrees
ϕ	PHI	angle of roll, degrees
ρ		mass density; kg/m ³ , slugs/ft ³

Reference & C.G. Definitions

A_b		base area; m ² , ft ²
b	BREF	wing span or reference span; m, ft
$C.G.$		center of gravity
l_{REF}	LREF	reference length or wing mean aerodynamic chord; m, ft
S	SREF	wing area or reference area; m ² , ft ²
	MRP	moment reference point
	XMRP	moment reference point on X axis
	YMRP	moment reference point on Y axis
	ZMRP	moment reference point on Z axis

ABBREVIATIONS

U	base
u	local
∞	static conditions
t	total conditions
∞	free stream

NOMENCLATURE (Continued)

Body-Axis System

<u>SYMBOL</u>	<u>SADSAC SYMBOL</u>	<u>DEFINITION</u>
C_N	CN	normal-force coefficient; $\frac{\text{normal force}}{qS}$
C_A	CA	axial-force coefficient; $\frac{\text{axial force}}{qS}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_{A_b}	CAB	base-force coefficient; $\frac{\text{base force}}{qS}$ $-A_b(p_b - p_\infty)/qS$
C_{A_f}	CAF	forebody axial force coefficient, $C_A - C_{A_b}$
C_m	CLM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS l_{REF}}$
C_n	CYN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qS b}$
C_l	CEL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qS b}$

Stability-Axis System

C_L	CL	lift coefficient; $\frac{\text{lift}}{qS}$
C_D	CD	drag coefficient; $\frac{\text{drag}}{qS}$
C_{D_b}	CDB	base-drag coefficient; $\frac{\text{base drag}}{qS}$
C_{D_f}	CDF	forebody drag coefficient; $C_D - C_{D_b}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_m	CLM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS l_{REF}}$
C_n	CLN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qS b}$
C_l	CSL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qS b}$
L/D	L/D	lift-to-drag ratio; C_L/C_D
L/D_f	L/DF	lift to forebody drag ratio; C_L/C_{D_f}

NOMENCLATURE (CONTINUED)

ADDITIONS TO STANDARD LIST

<u>SYMBOL</u>	<u>PLOT SYMBOL</u>	<u>DEFINITION</u>
δ_R	RUDDER	rudder, surface deflection angle, positive deflection, trailing edge to the left; degrees.
δ_e	ELEVON	elevon, surface deflection angle, positive deflection, trailing edge down; degrees.
δ_{RF}	RUDFLR	rudder flare, split rudder deflection angle, left split rudder trailing edge left and right split rudder trailing edge right, $\delta_{RF} = (\delta_{RL} + \delta_{RR})/2$, positive deflection; degrees.
i_o	ORBINC	incidence angle between the orbiter and external tank, $i_o = \alpha_t - \alpha_t$; degrees.
β_T	BETAT	angle of sideslip of external tank.
α_T	ALPHAT	angle of attack of external tank.
l_B	LB	length of orbiter body; in.
l_T	LT	length of external tank; in.
l_s	LS	length of SRM booster; in.
l_{NM}	LNM	length of OMS nozzle, positive direction forward of exit plane; in.
l_{NP}	LNP	length of MPS nozzle, positive direction forward of exit plane; in.
$b/2$	BW	wing semi-span; in.
b_v	BV	vertical tail span; in.
x	X	distance from component nose; in.
y	Y	lateral distance from centerline; in.

NOMENCLATURE (CONCLUDED)

<u>SYMBOL</u>	<u>PLOT SYMBOL</u>	<u>DEFINITION</u>
z	Z	vertical distance measured from W.L. 500 (vertical tail reference root chord); in.
c_w	CW	local wing chord; in.
c_v	CV	local vertical tail chord; in.
x/l_B	X/LB	longitudinal position/orbiter body length.
x/l_T	X/LT	longitudinal position/external tank length.
x/l_S	X/LS	longitudinal position/booster length.
x/l_{NM}	X/LNM	longitudinal position/OMS nozzle length.
x/l_{NP}	X/LNP	longitudinal position/MPS nozzle length.
x/c_w	X/CW	local chordwise position/local wing chord length.
x/c_v	X/CV	local chordwise position/local vertical tail chord length.
$y/b/2$	Y/BW	local spanwise position/wing semi-span.
z/b_v	Z/BV	local spanwise position/vertical tail span.

CONFIGURATIONS INVESTIGATED

The 0.030-scale aero loads model was a replica of the Space Shuttle Vehicle 2A. It consisted of four major components: the orbiter, the external oxygen and hydrogen tank (ET) and two solid rocket boosters (SRB).

On the ascent configuration, the orbiter was strut mounted from the ET on a Task Corporation MK XVI 2.5-inch diameter internal balance. The left SRB was strut mounted from the ET on a Task Corporation MK XXII 1.5-inch diameter internal balance. No attempt was made to simulate actual inter-attachments. The ET was sting mounted to the tunnel model support system on a Task Corporation 4.0-inch diameter internal balance. The right SRB was strut mounted symmetrically to the left side, but did not contain a balance. The orbiter configuration, designated as O2A, consisted of B10C5D7W87V5R5M3F4.

The entry configuration consisted of the isolated orbiter, sting mounted to the tunnel model support system on a Task Corporation MK XXA 2.5-inch diameter internal balance. Midway through the OAL2C test, the MK XXA balance was damaged and was replaced by the MK XXB for the high angles of attack. The orbiter was provided with deflectable elevons by means of interchangeable brackets, deflectable rudder by means of a pin-indexed hinge, and interchangeable rudders to obtain different speed brake flare angles. The main propulsion system engines were removed during entry configuration testing to provide sting clearance. A cover plate was provided for the strut clearance hole.

The orbiter was instrumented with 374 pressure orifices on the left wing, left side of the fuselage, vertical tail, left OMS pod and engine, left and upper MPS engine and the base. The pressures were measured using eleven Scanivalve, Inc., S-type valve modules mounted internally (a five and a six gang unit). When tested in the entry configuration, the MPS pressures were not available for measurement.

The left side of the ET was instrumented with 136 pressure orifices. These pressures were measured by means of 7 Scanivalve, Inc., S-type valve modules configured as one unit of 6 modules and one single. These valves were mounted internally in the tank. The left SRB had one gang of six S-type modules to measure 102 pressures. The right SRB was not instrumented. The pressure transducers used in the valve modules were Statham FM 131 TC differential pressure transducers, with ranges of ± 10 psid, ± 12.5 psid and ± 15 psid. Reference and calibration pressures were measured by the ARC micro manometers.

Some modifications were made to the model at the test site prior to

CONFIGURATIONS INVESTIGATED (CONTINUED)

testing. These were as follows:

1. The forward tip of the ET containing the retro rocket package (Reference NR Drawing VL78-000018) was replaced with a flush 0.90 inch radius nose (Model scale). The new nose had five pressure taps; one in the nose and four more aft of the nose on the vertical and horizontal axis on a 0.315 inch radius.
2. The ET balance cavity was enlarged by one inch on the diameter (from 5 inches to 6 inches) to provide clearance for cable routing and eliminate balance interference.
3. The clearances around both the orbiter and the SRB struts were opened to approximately 1/8 inch to prevent interference.
4. An alternate rudder hinge pin was provided to give a rudder deflection of +15 degrees.

Before and during the tests various model discrepancies developed or were discovered. These were generally minor and had only a negligible, if any, effect on the data. Significant discrepancies are noted below:

1. Pressure orifices P171 and P173 on the OMS pod base were omitted.
2. During the test certain pressure taps developed leaks or became plugged. Data from these taps are questionable and should be used with caution. Difficulties in checking may have resulted in erroneous indications of leakage. Repairs were made to correct leaking or plugged pressure instrumentation, whenever possible, as the test progressed. The following list gives those taps that were indicated as bad on the various leak and response checks:

ARC Facility	Run Nos.	Orifice numbers with questionable pressure data
11'	2-4	72, 163, 427
↓	5-118	31, 100, 123, 163, 201, 427
	119-160	16, 98, 101, 107, 333, 427
	161-170	16, 98, 101, 107, 333, 427 + 306, 307, 327, 328, 336, 337, 356, 357, 375

CONFIGURATIONS INVESTIGATED (CONCLUDED)

<u>ARC Facility</u>	<u>Run Nos.</u>	<u>Orifice numbers with questionable pressure data</u>
11'	171-182	16, 47, 53, 75, 78, 98, 107, 201, 236, 237, 238, 307, 327, 365, 427...
↓	183-189	Same as (171-182) + 7, 447, 525
	190-211	Same as (171-182)
8'x7'	220-234	20, 21, 24, 74, 326, 327, 336, 424, 427, 752, 868, 871
↓	235-285	74, 326, 327, 336, 424, 427, 752, 868, 871
	286-300	74, 107, 115, 124, 129, 138, 326, 327, 336, 427
↓	301-305	74, 326, 327, 336, 427
	306-333	74, 326, 327, 427
9'x7'	340-396	5, 325, 326, 327, 424, 427, 526, 752, 868, 871

TEST FACILITIES DESCRIPTION

Ames 11 x 11-Ft. Transonic

The Ames 11 x 11-Foot Transonic Wind Tunnel is a variable density, closed return, continuous flow type. This tunnel has an adjustable nozzle (two flexible walls) and a slotted test section to permit transonic testing over a Mach number range continuously variable from 0.4 to 1.4.

Ames 8 x 7-Ft. Supersonic

The Ames 8 x 7-Foot Supersonic Wind Tunnel is a closed-return, variable-density tunnel with a 8- by 7-foot rectangular test section. The nozzle has flexible side walls with fixed upper and lower surfaces. Mach number range is continuously variable from 2.45 to 3.5. Tunnel stagnation pressure can be varied from 0.3 to 2.0 atmospheres and Reynolds number per foot varies from 1.0×10^6 to 5.0×10^6 .

Ames 9 x 7-Ft. Supersonic

The Ames 9 x 7-Foot Supersonic Wind Tunnel is a variable density, continuous flow type with an adjustable nozzle to permit supersonic testing over a Mach number range continuously variable from 1.5 to 2.5. The nozzle is of the asymmetric, sliding-block type in which the variation of the test section Mach number is achieved by translating, in the streamwise direction, the fixed-contour block that forms the floor of the nozzle.

DATA REDUCTION

Standard procedures were utilized to reduce force and pressure data to coefficient form. The following dimensional constants were applied:

Reference Dimensions and Constants (Model Scale)

$S_{Ref.} = 2.421 \text{ ft}^2$	Orbiter reference area
$l_{Ref.} = 39.849 \text{ in.}$	Orbiter reference length
<u>Base Areas (Model Scale)</u>	
$A_{BOI} = 0.1903 \text{ Ft}^2$	Orbiter base area, integrated
$A_{BOA} = 0.2362$	Orbiter base area, sting mounted
$A_{BMPSU} = 0.0417$	Orbiter upper MPS base area
$A_{BMPSL} = 0.0853$	Orbiter lower MPS base area
$A_{BACPS} = 0.0310$	Orbiter ACPS base area on OMS pod
$A_{BOMS} = 0.0231$	Orbiter OMS nozzle base area
$A_{BPOD} = 0.0257$	Orbiter OMS pod base area
$A_{CO} = 0.0611$	Orbiter sting cavity base area
$A_{BNOZ} = 0.0564$	SRM nozzle base area
$A_{BSKIRT} = 0.1729$	SRM nozzle skirt base area
$A_{BETI} = 0.3189$	ET Base area
$A_{CET} = 0.1964$	ET Sting cavity base area

TEST : 0A12 / 1A9

TABLE I.

DATE : May, 1973

TEST CONDITIONS

MACH NUMBER	REYNOLDS NUMBER (per unit length)	DYNAMIC PRESSURE (pounds/sq. foot)	STAGNATION TEMPERATURE (degrees Fahrenheit)
0.6	4.0×10^6	540	120° NOM.
0.9	4.5	800	
1.1	4.0	800	
1.25	3.0	630	
1.4	3.0	650	
1.55	2.8	600	
2.0	2.3	490	
2.5	1.5	300	
3.0	2.0	350	Y
3.5	2.0	300	

FIVE (5) TASK CORPORATION BALANCES
BALANCE UTILIZED: WITH CAPACITIES AS FOLLOWS:

	ISOLATED ORBITER		INTEGRATED VEHICLE		
	NR II A	MR II B	ORB MR II A	SRB MR II A	ET MR II B
NF	3000	3000	2400	1250	4000
NA	3000	3000	2400	1250	4000
YF	1500	1500	1200	500	2000
YA	1500	1500	1200	500	2000
X	600	600	1500	200	1000
R	4000	4000	4000	1000	10,000
SIZE	2.5"	2.5"	2.5"	1.5"	4.0"

COMMENTS: THE MARK II A, 2.5 IN. DIA. BALANCE WAS
DAMAGED AFTER RUN 319. THE MARK II B WAS
SUBSTITUTED FOR RUN 320 AND SUBSEQUENT RUNS

TABLE II.

DATE: 4-27-50																	
DATA SET/RUN NUMBER COLLATION SUMMARY																	
DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS/VALUES				NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)					TEST RUN NUMBERS			
		α	β	δ_e	δ_R	δ_{FR}	L_0		0.6	0.9	1.1	1.25	1.4				
RBMX 01	$\phi_{2A} + S_3 + T_9$	A	0	0	0	0	1.5	4	3	5	6	7					
02		A	0	0	0	0	0.5	5	8	18	28	38	48				
03		-8	B				0	4	9	19	29	39					
04		-6	0				0	4	10	20	30	40					
05		-4	0				0	4	11	21	31	41					
06		-2	0				0	4	12	22	32	42					
07		0	0				0	5	13	23	33	43	49				
08		2	0				0	4	14	24	34	44					
09		4	0				0	4	15	25	35	45					
10		6	0				0	4	16	26	36	46					
11		8	0				0	4	17	27	37	47					
12		-8	C			-5	0	2			97	102					
13		-6	0			0	0	2			118	111					
14		-4	0			0	0	2			98	103					
15		-2	0			0	0	2			117	112					
16		0	0			0	0	2			99	104					
17		2	0			0	0	2			116	113					
18		4	0			0	0	2			100	105					
								37	43	49	55	61	67	75.76			
								COEFFICIENTS							IDVAR (1)	IDVAR (2)	NDV
α OR β								$\alpha A = -8, -6, -4, -2, 0, 2, 4, 6, 8$							$\beta C = -8, -4, 0, 4, 8$		
SCHEDULES								$\beta B = -8, -6, -4, -2, 0, 2, 4, 6, 8$									

TABLE II. CONTINUED

[illegible]

TABLE II. CONTINUED

TEST: ARC 11-707(IA94)		DATA SET/RUN NUMBER COLLATION SUMMARY										DATE: ..															
DATA SET IDENTIFIER	CONFIGURATION	SCMD. PARAMETERS/VALUES					NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)					TEST RUN NUMBERS														
		α	β	δe	δR	δFR		δo	0.6	0.9	1.1	1.25	1	7	13	19	25	31	37	43	49	55	61	67	73	76	
RBMx37	$\phi_{2A} + S_2 + T_2$	6	C	0	-15	0	0.5	2																			
38		8	T	T	-15	T	T	T																			
39		-8			-5																						
40		-1			T																						
41		0																									
42		4																									
43		8																									
44		A	0		0		-1.2	4	107	108																	

α OR β
SCHEDULES

COEFFICIENTS

IDVAR (1) IDVAR (2) IDVAR (3)

1

TABLE II. CONTINUED

[illegible]

TABLE II. CONTINUED

DATE: 5-1-73

[illegible]

TABLE II. CONTINUED

DATE: 5-1-73

DATA SET/RUN NUMBER COLLATION SUMMARY

TEST: ARC 8x7-707 (IA9C)

[illegible]

TABLE II. CONTINUED

TEST : AMES 11-707 (0A12A)										DATE : 4-23-73										DATA SET/RUN NUMBER COLLATION SUMMARY																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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RBPX01		B ₀ C ₅ D ₁ N ₂ E ₄ M ₃ N ₈ V ₅ R ₃ W ₇ F ₁₀		A	0	0	0	0	0	2		119	125																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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03				5	T	T	T	T	T	T		121	127																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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TABLE II. CONTINUED

TEST: AMES 11-707 (0412A)										DATE: 4-23-73																			
DATA SET / RUN NUMBER COLLATION SUMMARY																													
DATA SET IDENTIFIER	CONFIGURATION	SCHD. PARAMETERS/VALUES						NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)					TEST RUN NUMBERS															
		α	β	δe	δR	δFR	0.6		0.9																				
RBPx19	B ₁₀ C ₅ D ₇ N ₂ F ₄ M ₃ N ₆ V ₅ R ₃ W ₆ E ₁₀	10	D	+10	0	0	2	153	157																				
20		15	T	T	T	T	T	154	159																				
21		20	T	T	T	T	T	155	158																				
22		0	C	-10				161	166																				
23		5	T	T				162	167																				
24		10	T	T				163	168																				
25		15	T	T				164	169																				
26		20	T	T				165	170																				
27		-4	E	-20				171	182																				
28		0	C					172	181																				
29		5	T					173	180																				
30		10	T					174	179																				
31		15	T					175	178																				
32		20	T					176	177																				
33		-4	E	0	0	40		183	189																				
34		0	C			T		184	190																				
35		5	T			T		185	191																				
36		10	T			T		186	192																				
1		7	13	19	25	31	37	43	49	55	61	67	75	76															
										COEFFICIENTS										IDVAR (1) IDVAR (2) NDV									
α OR β										α A = -MAX, 0, 5, 10, 15, 20, 25										β C = -8, -4, 0, 4, 8									
SCHEDULES										β B = -10, -5, 5, 10										β D = -10, 0, 10 β E = -5, 0, 5									

TEST : AMES 11-707 (0A12A)	DATE : 4-23-73
DATA SET/RUN NUMBER COLLATION SUMMARY	

[illegible]

TABLE II. CONTINUED

TEST: 87-707 (0A12C)										DATE: 5-9-73																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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		α	β	δc	δR	δFR			2.5	3.5																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	

TABLE II. CONCLUDED

DATE: 5-9-73

[illegible]

TABLE III. MODEL COMPONENT DIMENSIONAL DATA

MODEL COMPONENT: BLO Body

GENERAL DESCRIPTION: Fuselage, 2A Configuration, Lightweight Orbiter, per
Rockwell Lines VL70-000089 "B."

Scale Model = .030

DRAWING NUMBER: VL70-000089 "B"
VL70-000092, 93, 94 "A"

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Length ~ IN	<u>1328.3</u>	<u>39.8490</u>
Max. Width ~ IN (@X ₀ = 1528.3)	<u>265.0</u>	<u>7.9500</u>
Max. Depth ~ IN. (@X ₀ = 1480.52)	<u>248.0</u>	<u>7.4400</u>
Fineness Ratio	<u>5.012</u>	<u>5.012</u>
Area ~ Ft ²		
Max. Cross-Sectional	<u>456.4</u>	<u>.41076</u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

TABLE III. (CONTINUED)

MODEL COMPONENT: Canopy - C5

GENERAL DESCRIPTION: 2A Configuration per Lines VL70-000092

Scale Model = .030

DRAWING NUMBER: VL70-000092

DIMENSIONS:

FULL-SCALE

MODEL SCALE

Length (STA FWD Bulkhead)

391.0

11.730

Max. Width (T.E. Bulkhead)

560.0

16.800

Max. Depth (WP = 42.9 22 to = 500)

Fineness Ratio

Area

Max. Cross-Sectional

Planform

Wetted

Base

TABLE III. (CONTINUED)

MODEL COMPONENT: Manipulator Housing D-7GENERAL DESCRIPTION: 2A Configuration per Rockwell Lines VL70-000093Scale Model = .030DRAWING NUMBER: VL70-000093DIMENSIONS:FULL-SCALEMODEL SCALE

Length ~ IN.

881.0026.430

Max. Width ~ IN.

51.001.530

Max. Depth ~ IN.

23.00.690

Fineness Ratio

Area

Max. Cross-Sectional

Planform

Wetted

Base

E Fuselage

BP = 0.00

WP = 500.0 IN. FS

X.426.0 to 1307.0 IN. FS

TABLE III. (CONTINUED)

MODEL COMPONENT: WING-W87 New Light Weight OrbiterGENERAL DESCRIPTION: Orbiter Configuration Per Lines VL70-000093.NOTE: (Dihedral Angle is defined at the lower surface of the Wing at the 75.33% element line projected into a plane perpendicular.Scale Model = .030TEST NO.DWG. NO. VL70-000093DIMENSIONS:FULL-SCALEMODEL SCALETOTAL DATA

Area (Theo.)	Ft ²	2690.00	2.42100
Planform		936.68	28.10040
Span (Theo)	In.	2.265	2.265
Aspect Ratio		1.177	1.177
Rate of Taper		0.200	0.2000
Taper Ratio		3.5000	3.500
Dihedral Angle, degrees		3.000	+3.00
Incidence Angle, degrees		3.500	+3.000
Aerodynamic Twist, degrees			
Sweep Back Angles, degrees		45.00	45.00
Leading Edge		-10.24	-10.24
Trailing Edge		35.209	35.209
0.25 Element Line			
Chords:			
Root (Theo) B.P.O.O.		689.24	20.67720
Tip, (Theo) B.P.	46834	137.85	4.13550
MAC		474.81	14.24430
Fus. Sta. of .25 MAC		1136.89	34.10670
W.P. of .25 MAC		299.20	8.97840
B.L. of .25 MAC		182.13	5.46390
183.13			
<u>EXPOSED DATA</u>			
Area (Theo)	Ft ²	1752.29	1.57706
Span, (Theo)	In. BP108 to 468.341	720.68	21.62040
Aspect Ratio		2.058	2.058
Taper Ratio		.2451	.2451
Chords			
Root BP108		562.40	16.8720
Tip 1.00 $\frac{b}{2}$		137.85	4.13550
MAC		393.03	11.79090
Fus. Sta. of .25 MAC		1185.31	35.55930
W.P. of .25 MAC		300.207	9.00621
B.L. of .25 MAC		143.76	4.31280
Airfoil Section (Rockwell Mod NASA)			
XXXX-64			
Root $\frac{b}{2}$ = .425		.10	.10
Tip $\frac{b}{2}$ = 1.00		.12	.12
Data for (1) of (2) Sides			
Leading Edge Cuff	Ft ²	120.33	.10830
Planform Area		560.0	16.80
Leading Edge Intersects Fus M. L. @ Sta		1035.0	31.050
Leading Edge Intersects Wing @ Sta			

TABLE III. (CONTINUED)

MODEL COMPONENT: Elevon E-18GENERAL DESCRIPTION: 2A Configuration Per W-87 Rockwell Lines VL 70-000093Data for (1) of (2) SidesScale Model = .030DRAWING NUMBER: VL 70-000093

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area ~ Ft ²	<u>205.52</u>	<u>.18497</u>
Span (equivalent) ~ IN.	<u>353.34</u>	<u>10.60020</u>
Inb'd equivalent chord	<u>114.78</u>	<u>3.44340</u>
Outb'd equivalent chord	<u>55.00</u>	<u>1.6500</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>.208</u>	<u>.208</u>
At Outb'd equiv. chord	<u>.400</u>	<u>.400</u>
Sweep Back Angles, degrees		
Leading Edge	<u>0.00</u>	<u>0.00</u>
Tailing Edge	<u>-10.24</u>	<u>-10.24</u>
Hingeline	<u>0.00</u>	<u>0.00</u>
Area Moment (Normal to hinge line) Ft ³	<u>1548.07</u>	<u>.04180</u>
Product of Area Moment		

TABLE III. (CONTINUED)

MODEL COMPONENT: VERTICAL - V5 (Light Weight Orbiter Configuration)GENERAL DESCRIPTION: Centerline Vertical Tail, Double Wedge Airfoil with Rounded Leading Edge

Scale Model = .030

DRAWING NUMBER:

VL70-000095DIMENSIONS:FULL-SCALEMODEL SCALETOTAL DATA

Area (Theo) Ft ²	<u>413.25</u>	<u>.37192</u>
Planform		
Span (Theo) In	<u>315.72</u>	<u>9.47160</u>
Aspect Ratio	<u>1.675</u>	<u>1.675</u>
Rate of Taper	<u>0.507</u>	<u>0.507</u>
Taper Ratio	<u>.404</u>	<u>.404</u>
Sweep Back Angles, degrees		
Leading Edge	<u>45.000</u>	<u>45.000</u>
Trailing Edge	<u>26.249</u>	<u>26.249</u>
0.25 Element Line	<u>41.130</u>	<u>41.130</u>
Chords:		
Root (Theo) WP	<u>268.50</u>	<u>8.05500</u>
Tip (Theo) WP	<u>108.47</u>	<u>3.25410</u>
MAC	<u>199.81</u>	<u>5.99430</u>
Fus. Sta. of .25 MAC	<u>1463.50</u>	<u>43.90500</u>
W. P. of .25 MAC	<u>635.522</u>	<u>19.06566</u>
B. L. of .25 MAC	<u>0.00</u>	<u>0.00</u>
Airfoil Section		
Leading Wedge Angle Deg	<u>10.000</u>	<u>10.000</u>
Trailing Wedge Angle Deg	<u>14.920</u>	<u>14.920</u>
Leading Edge Radius IN.	<u>2.00</u>	<u>.06</u>
Void Area Ft ²	<u>13.17</u>	<u>.01185</u>
Blanketed Area Ft ²	<u>12.67</u>	<u>.01140</u>

TABLE III. (CONTINUED)

MODEL COMPONENT: R-5 RudderGENERAL DESCRIPTION: ZA Configuration per Rockwell Lines VL 70-000095Scale Model = .030DRAWING NUMBER: VL 70-000095

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area ~ Ft ²	<u>106.38</u>	<u>.09574</u>
Span (equivalent) ~ IN.	<u>201.0</u>	<u>6.030</u>
Inb'd equivalent chord	<u>91.585</u>	<u>2.74755</u>
Outb'd equivalent chord	<u>50.833</u>	<u>1.52499</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
At Outb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
Sweep Back Angles, degrees		
Leading Edge	<u>34.83</u>	<u>34.83</u>
Tailing Edge	<u>26.25</u>	<u>26.25</u>
Hingeline	<u>34.83</u>	<u>34.83</u>
Area Moment (Normal to hinge line) ~ Ft ³	<u>526.13</u>	<u>.01421</u>
Product of Area and Mean Chord		

TABLE III. (CONTINUED)

MODEL COMPONENT: OMS Pod -M3

GENERAL DESCRIPTION: 2A Light Weight Configuration per Rockwell Lines

VL70-000094A

Scale Model = .030

DRAWING NUMBER: VL70-000094A

DIMENSIONS:

FULL-SCALE

MODEL SCALE

Length

346.0

10.380

Max. Width $X_1 = 1450.0$

108.0

3.240

Max. Depth $X_0 = 1500.0$

113.0

3.390

Fineness Ratio

Area

Max. Cross-Sectional

Planform

Wetted

Base

D of OMS Pod

WP = 463.9 IN. FS WP 400 + 63.9 = 463.9

BP = 80.0 IN. FS

Length 1214.0 to 1560.0' = 346.0 IN. FS

TABLE III. (CONTINUED)

MODEL COMPONENT: FL Body FlapGENERAL DESCRIPTION: 2A Configuration per Rockwell Lines VL70-000094AScale Model = .030DRAWING NUMBER: VL70-000094A

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Length	<u>84.70</u>	<u>2.541</u>
Max. Width	<u>265.00</u>	<u>7.950</u>
Max. Depth	<u> </u>	<u> </u>
Fineness Ratio	<u> </u>	<u> </u>
Area ~ Ft ²		
Max. Cross-Sectional	<u> </u>	<u> </u>
Planform	<u>142.64</u>	<u>.12838</u>
Wetted	<u> </u>	<u> </u>
Base Ft ²	<u>38.65</u>	<u>.03478</u>

TABLE III. (CONTINUED)

MODEL DIMENSIONAL DATA

MODEL COMPONENT : S3-Booster Solid Rocket MotorGENERAL DESCRIPTION : 2A Configuration Per Rockwell Lines VL77-000012
& VL72-000061 "B"Body of Revolution; Data for (1) of (2) SidesScale Model = .030DRAWING NUMBER : VL 77-000012

DIMENSIONS :

FULL SCALE

MODEL SCALE

Length ~IN.

1732.051.96

Max Width (DIA) IN. BSRM Tank

142.04.260

Max Depth (DIA) Aft Skirt

259.07.77

Fineness Ratio L/D

6.6876.687Area ~ Ft²Max. Cross-Sectional (Aft
Skirt)365.87.32928

Planform

Wetted

Base

Ref.

FS (Orbiter) = 0.00 = 747.99 IN. ET = 200.0 IN. BSRM

WP (BSRM) = WP 400(Orbiter) - 344.413 = 55.587 IN.

BP (Orbiter) = 0.00 = 243.0 IN. BSRM

TABLE III. (CONCLUDED)

MODEL COMPONENT: EXTERNAL TANK - T9

GENERAL DESCRIPTION: 2A Configuration

NOTE: T9 identical to T8 w/o retro pkg., nose w/30"R F.S.

DRAWING NUMBER

NONE

DIMENSION:

FULL SCALE

MODEL SCALE

Length - IN.

1858

55.740

Max Width (Dia) - IN.

324.0

9.720

Max Depth

Fineness Ratio L/D

5.73457

5.73457

Area - FT²

Max Cross-Sectional

572.56

0.51530

Planform

Wetted

Base

Nose, Radius, IN.

30.0

ORBITER BODY

ORBITER STATION ~ X_0			RADIAL LOCATION θ ~ DEGREES																	
FULL	MODEL	X_0 / H	0	20	40	55	70	90	105	110	120	135	142	150	157	162	165	169	172	180
200	6.00	0	20																	23
210	6.30	.008	21					22			30			31						32
225	6.75	.019	24	25	26	27	28	29			39			40						41
245	7.35	.034	33	34	35	36	37	38			48			49						50
280	8.40	.060	42	43	44	45	46	47			57			58						59
380	11.40	.136	51	52	53	54	55	56							61			60		
400	12.00	.151																		
410	12.30	.158									68			69		70		71		72
430	12.90	.173	62	63	64	65	66	67					73							
460	13.80	.196																		83
500	15.00	.226	74	75	76	77	78	79			80			81			82			91
560	16.80	.271	84		85		86	87			88			89			90			99
625	18.75	.320	92		93		94	95			96			97			98			
725	21.75	.395	100		101		102	103			104			105			106			107
880	26.40	.512	108		109		110	111			112			113			114			115
980	29.40	.587	116		117		119	120			121			122			123			124
1080	32.40	.662			118		125	126			127			128						129
1180	35.40	.738					131	132			134			136			137			138
1245	37.35	.787			130		140	141			143	135		145			146			
1300	39.00	.828			139		148	149			151	152		153			154			
1375	41.25	.885			147		156	157			159	160		161			162			
1430	42.90	.926			155		164	165			167	168		169			170			
1480	44.40	.964	163								171									
1530 ^a	45.90	1.001								172	173									
1530 ^b	45.90	1.001									174									

^a OMS POD, INSIDE

^b OMS POD, OUTSIDE

a. Orbiter body

Table IV. Pressure Orifice Locations

ORBITER BASE

LOCATION	ORIFICE NUMBERS
ORBITER BASE (INTEGRATED)	1, 2, 3, 4
LEFT MPS NOZZLE BASE	5
UPPER MPS NOZZLE BASE	6
ACPS BASE AREA ON OMS POD	7
OMS NOZZLE BASE	8
OMS POD BASE	9
ORBITER BASE (STING MOUNT)	11, 12, 13, 14
ORBITER STING CAVITY	15, 16

BODY FLAP LWR SURFACE

ORB. STA. ~ X ₀	θ ~ DEG
FULL MODEL	0 40
1580	47.40 175 176

OMS NOZZLE

X ~ IN	θ ~ DEG
FWD BASE	135 180 225
FULL MODEL	177 178 180 179
10 0.30	
20 0.60	

MPS NOZZLE

X ~ IN.	θ ~ DEG
FWD BASE	0 90 135 180 225 270
FULL MODEL	181 182 183 184 185 186
25 0.75	187 188 189 190 191 192
50 1.50	193 194 195 196 197
75 2.25	

VERTICAL TAIL

WATER PLANE ~ Z ₀		X/C ~ THEORETICAL VERTICAL CHORD									
FULL	MODEL	7°	0	.05	.15	.30	.52	.65	.775	.90	
525	15.75	.079	400								
550	16.50	.158	L	411	412	413	414	415	416		
			R	511	512	513	514	515	516		
600	18.00	.316	L	421	422	423	424	425	426	427	
			R	521	522	523	524	525	526	527	
690	20.70	.60	L	431	432	433	434	435	436	437	
			R	531	532	533	534	535	536	537	
765	22.95	.84	L	441	442	443	444	445	446	447	
			R	541	542	543	544	545	546	547	
792	23.76	.925	L	451	452	453	454	455	456	457	
			R	551	552	553	554	555	556	557	

b. Orbiter Base, Body Flap Lower Surface, and Vertical Tail

Table IV. Continued.

ORBITER WING

ORBITER D.P. - γ			X/C ~ THEORETICAL WING CHORD																						
FULL	MODEL	γ	- .49	- .35	- .25	- .15	- .033	0.0	.05	.15	.25	.40	.55	.60	.65	.70	.725	.75	.775	.80	.85	.90	.95		
140	4.20	.299	U	200	201	202	202		203	203	204	205	205					206		207	208	209			
			L	301	301	302	302		303	303	304	305	305					306		307	308	309			
170	5.10	.364	U			210	211		212																
			L			311	311		312																
200	6.00	.427	U					220	221	222		223	224					225		226	227	228	229		
			L						321	322		323	324					325		326	327	328	329		
230	7.90	.534	U						231	232	233	234	235				236		237		238	239	240		
			L						331	332	333	334	335				336		337		338	339	340		
315	9.45	.673	U						251	252	253	254	255			256			257		258		259		
			L						351	352	353	354	355			356			357		358		359		
365	10.95	.780	U						261	262	263				264			265		266		267			
			L						361	362	363				364			365		366		367			
415	12.45	.887	U						271	272	273	274		275				276				277			
			L						371	372	373	374		375				376				377			

U - UPPER SURFACE L - LOWER SURFACE

X/C LOCAL WING CHORD	
7	0, .094, .229, .362, .497, .700, .834, .865, .900, .965
.299	0, .086, .246
.364	0, .081, .177, .402, .565, .760, .808, .857, .905, .953
.427	SAME AS THEORETICAL CHORD
.534	
.673	
.780	
.887	

c. Orbiter Wing
Table IV. Continued.

EXTERNAL TANK

EXTENSIVE LIST

TANK STA ~ XT			$\theta \sim \text{DEG}$									
FULL	MODEL	XT/LT	0	30	60	90	120	135	150	165	180	270
316.	9.48	0	610			614					619	620
317.7	9.53	.001	611			624	625		627		629	
400	12.00	.045	621	622	623	634	635		637	638	639	
520	15.60	.110	631	632	633	644	645		647	648	649	
640	19.20	.174	641	642	643	654	655		657	658	659	
670	20.10	.191	651	652	653	664	665		667	668	669	
720	21.30	.212	661	662	663	674	675	676	677	678	679	
750	22.50	.234	671	672	673	684	685		687	688	689	
850	25.50	.287	681	682	683	694	695	696	697	698	699	
950	28.50	.341	691	692	693	704	705	707	707	708	709	
1050	31.50	.395	701	702	703	714	715	716	717		719	
1150	34.50	.449	711	712	713	724	725	727	727	728	729	
1250	37.50	.503	721	722	723	734	735	736	737		739	
1350	40.50	.557	731	732	733	744	745		747	748	749	
1500	45.00	.637	741	742	743		755	756	757	768	759	
1700	51.00	.745	751	752	753		765	766	767	778		
1900	57.00	.853	761	762	763	774	775	776	777			
2040	61.20	.929	771	772	773							
STING CAVITY			601			603					604	
BASE			602									

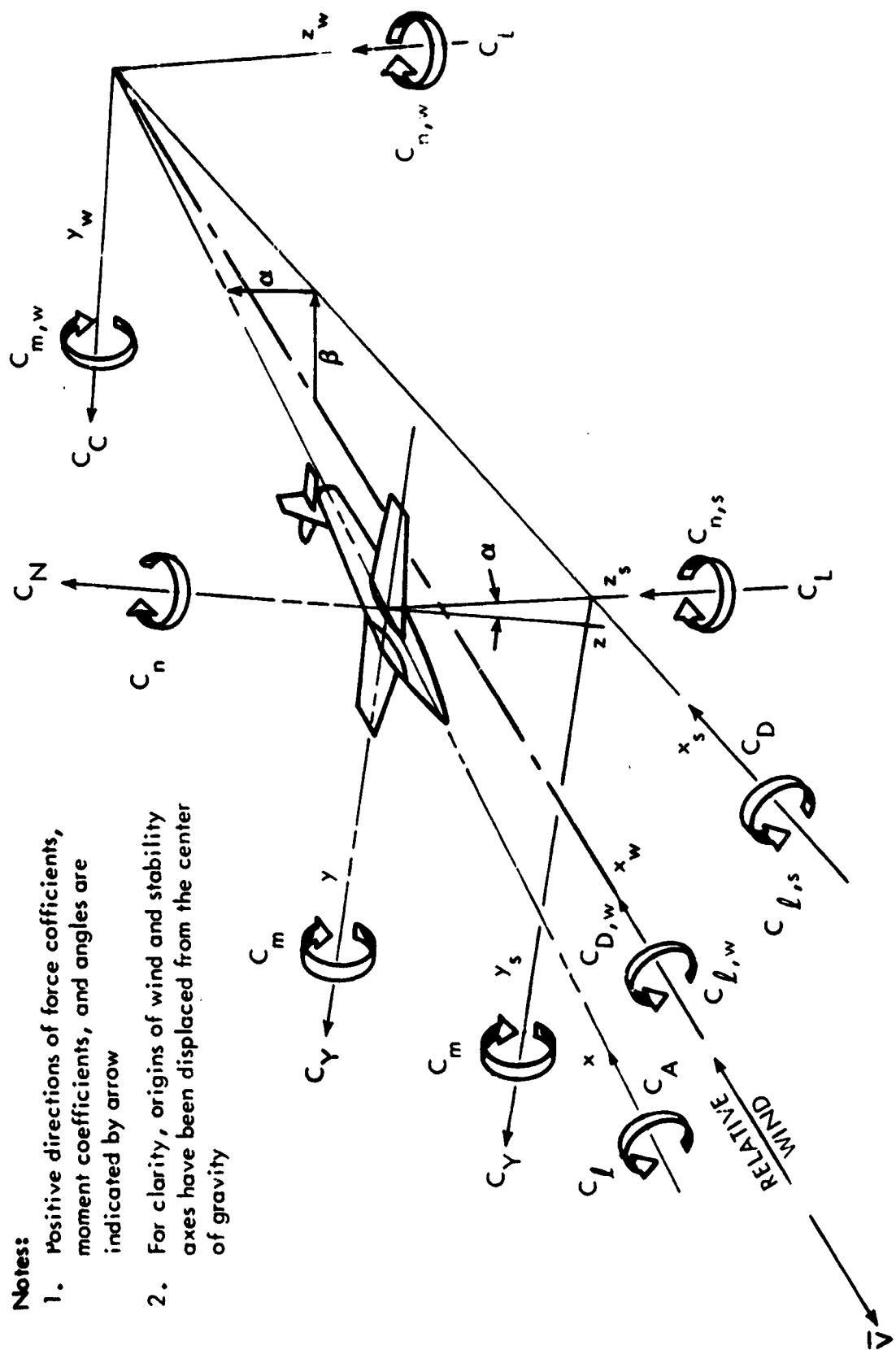
d. External Tank
Table IV. Continued.

LEFT SRM

SRM STATION ~ XS			$\theta \sim \text{DEG}$							
FULL	MODEL	XS/LS	0	45	90	135	180	225	270	315
200	6.00	0	810							
260	7.80	.034	811	812	813	814	815	816	817	818
370	11.10	.097	821	822	823	824	825	826	827	828
400	12.00	.114	831	832	833	834	835	836	837	838
450	13.50	.142	841	842	843	844	845	846	847	848
550	16.50	.199	851	852	853	854	855	856	857	858
700	21.00	.284	861		863		865	866	867	868
850	25.50	.370	871		873		875		877	
1050	31.50	.484	881		883		885			
1250	37.50	.597	891		893		895			
1450	43.50	.711	901		903		905		907	
1650	49.50	.825	911		913		915		917	
1750	52.50	.882	921	922	923	924	925	926	927	928
1790	53.70	.904	931	932	933	934	935	936	937	938
1850	55.50	.939	941	942	943	944	945	946	947	948
1900	57.00	.967	951	952	953	954	955	956	957	958
NOZZLE BASE			801							
SKIRT BASE			802		803		804		805	

e. Left SRM

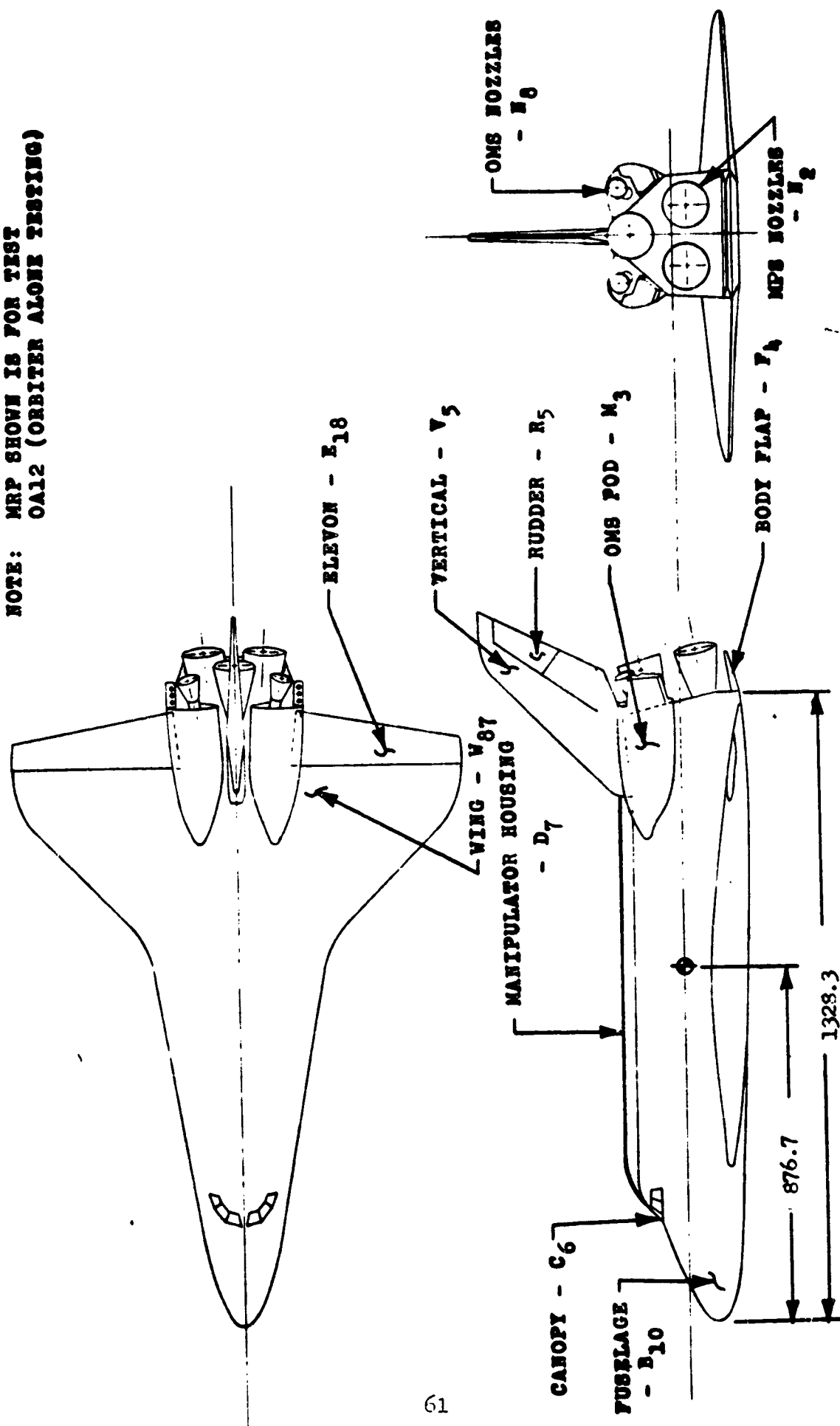
Table IV. Concluded.



- Notes:**
1. Positive directions of force coefficients, moment coefficients, and angles are indicated by arrow
 2. For clarity, origins of wind and stability axes have been displaced from the center of gravity

Figure 1. - Axis Systems.

NOTE: MRP SHOWN IS FOR TEST
OAL12 (ORBITER ALONE TESTING)



a. Orbiter, O_{2A}

Figure 2. - Model Sketches.

SRM S₃

X_T 1958

142 DIA.

X_S 1755

X_S 1932

X_S 308

X_S 200

EXTERNAL TANK T₉

X_T 2052

324 DIA.

X_T 316

X_T 711

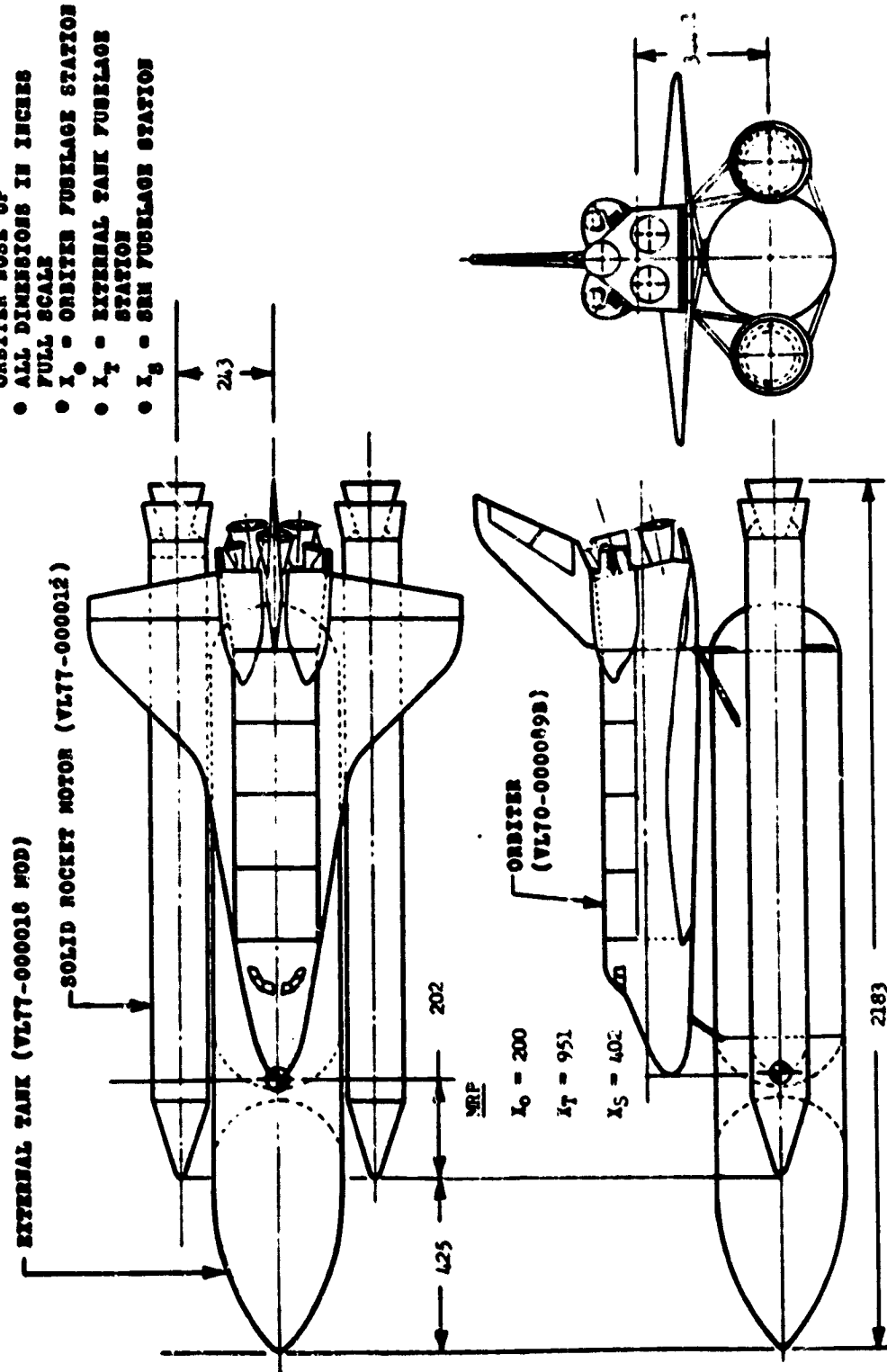
X_T 2174

MODEL CUT TO HERE
FOR STING MOUNT

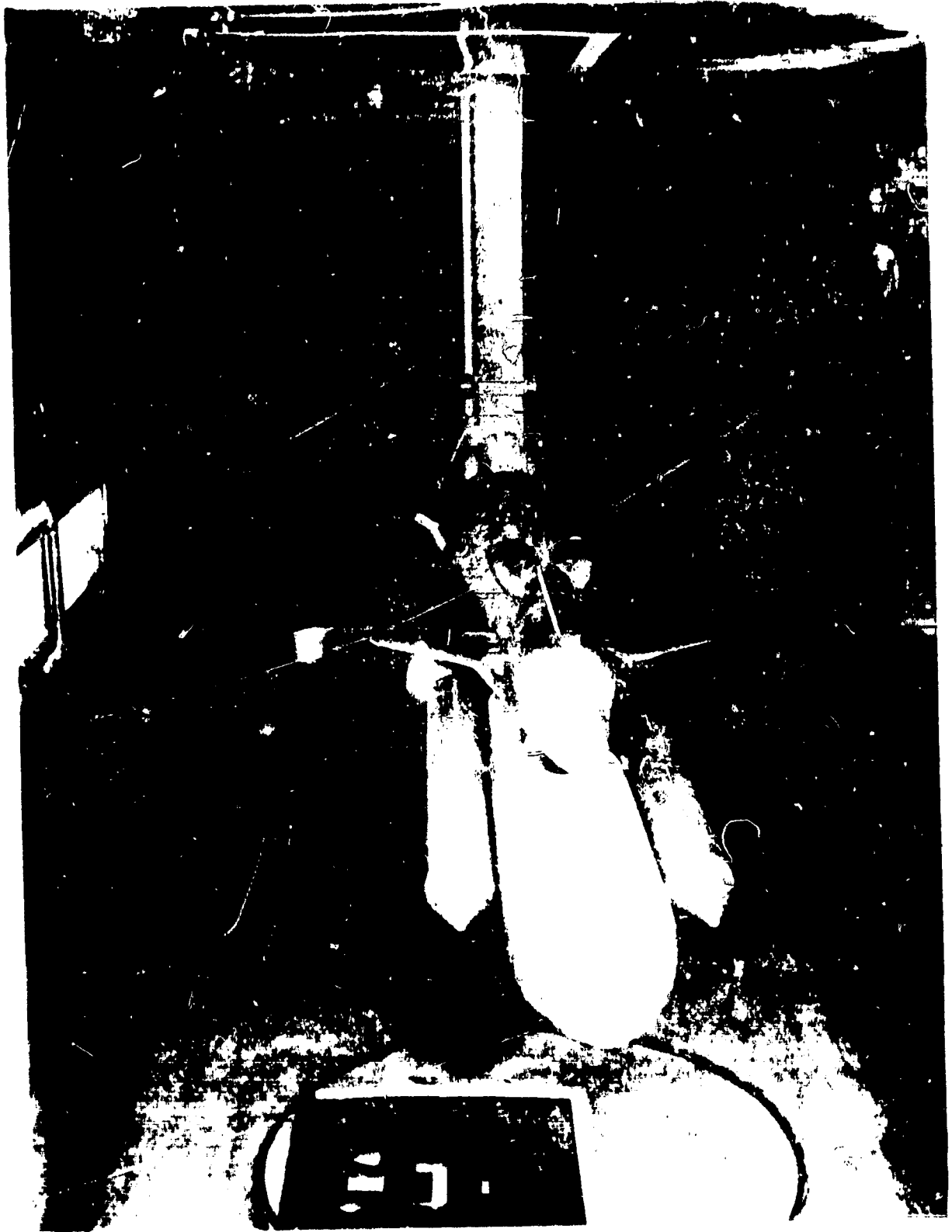
b. SRM, S₃, and External Tank, T₉

Figure 2. - Continued.

- NOTES:**
- ORBITER INCIDENCE ANGLE
RELATIVE TO TANK CL IS 0.5°
 - ORBITER NOSE UP
 - ALL DIMENSIONS IN INCHES
FULL SCALE
 - X_0 - ORBITER FUSELAGE STATION
 - X_T - EXTERNAL TANK FUSELAGE
STATION
 - X_S - SRM FUSELAGE STATION



c. Integrated Vehicle
Figure 2. - Concluded.





b. Isolated Orbiter (Entry Configuration) Mounted in the ARC 8x7 Ft. Tunnel

Figure 3. - Concluded.

DATA FIGURES

AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (R80801)

SYMBOL
 ○
 □
 ◇
 △

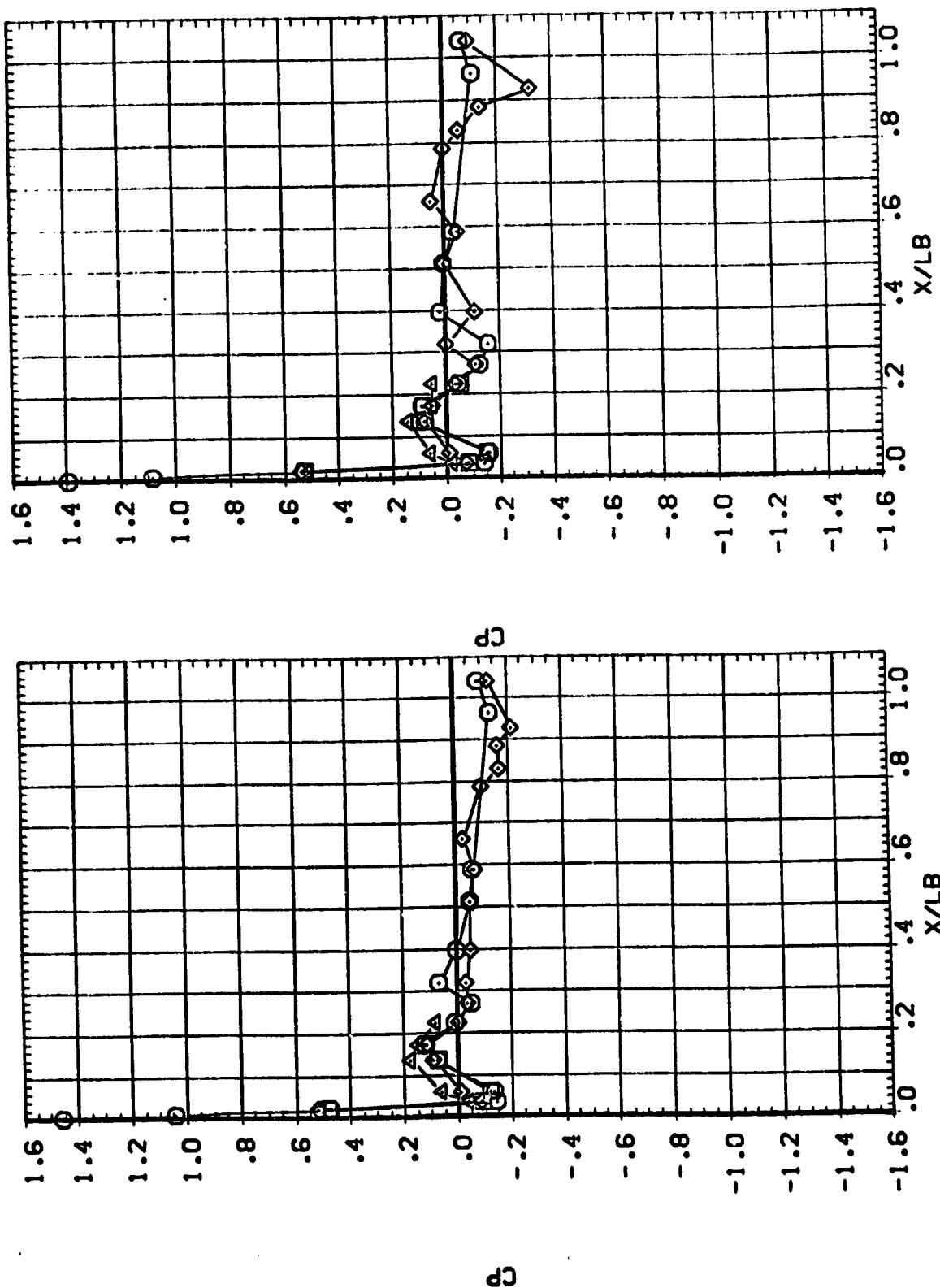
PHI
 .000
 20.000
 40.000
 55.000

ALPHAT
 -4.250
 -.120

MACH
 1.555

PARAMETRIC VALUES
 BETAT
 RUDDER
 RUDFLR

.500
 .000
 .000
 .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RB0B01)

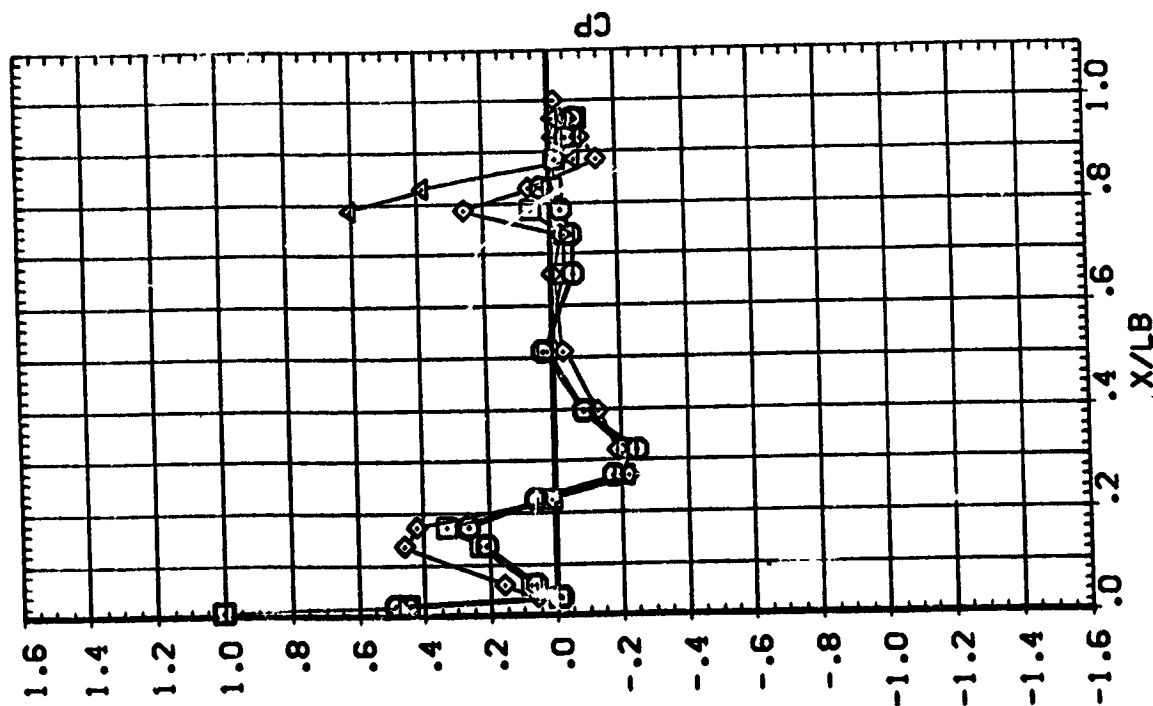
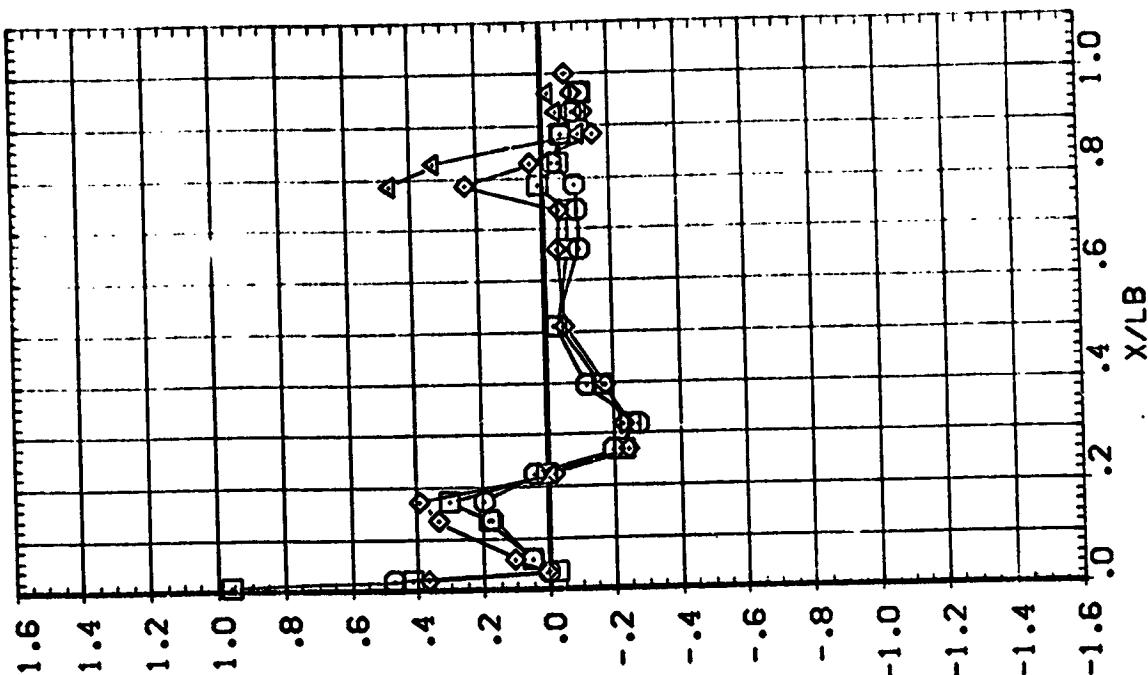
SYMBOL
 ○ □ ◇ △

PHI
 70.000
 90.000
 120.000
 135.000

ALPHAT
 -4.250
 -.120

MACH
 1.555

PARAMETRIC VALUES
 BETAT .000 ORBINC .500
 RUDDER .000 ELEVON .000
 RUOFLR .000

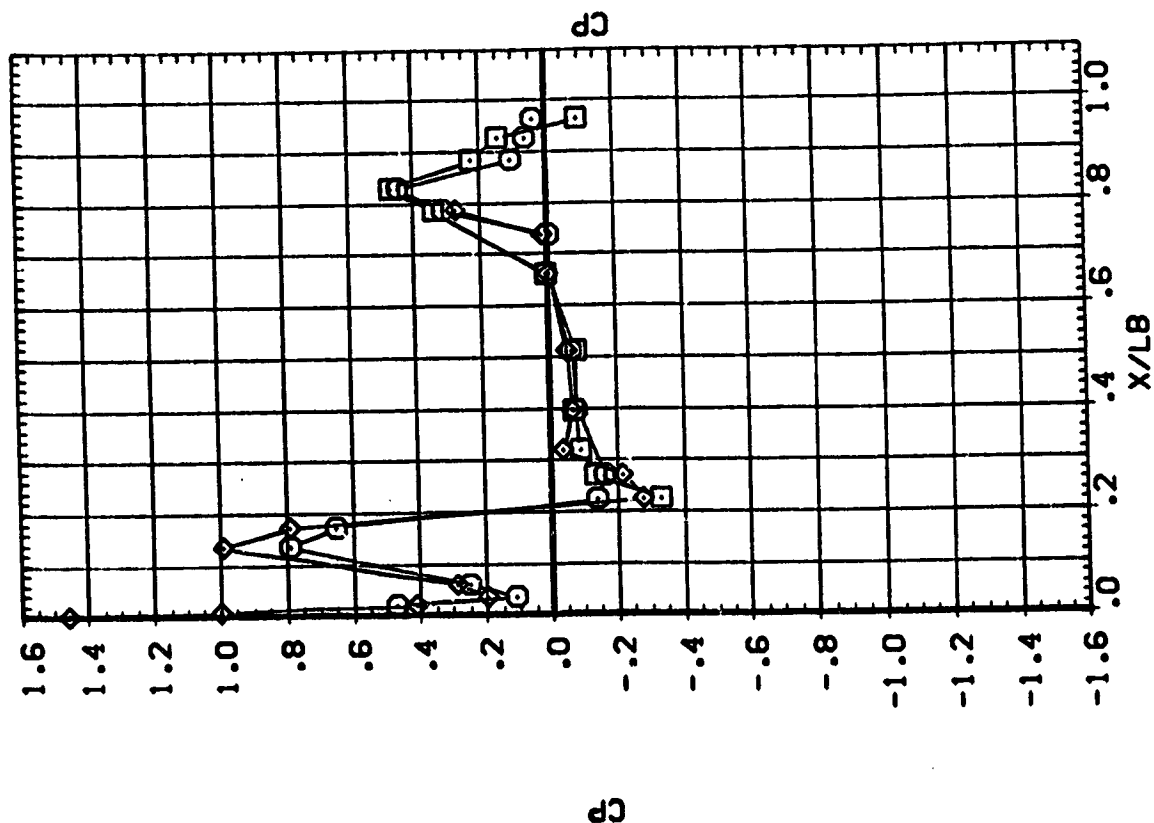
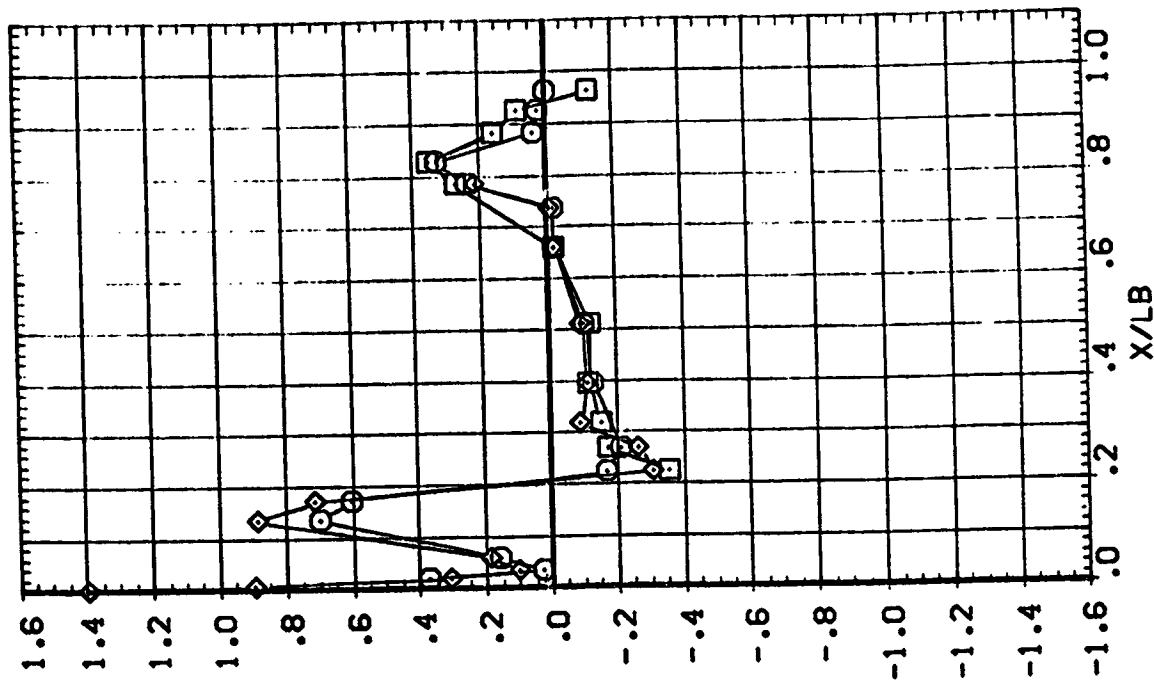


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RB0801)

PARAMETRIC VALUES
 BETAT .000 CSBINC .500
 RJOER .000 ELEVEN .000
 RJOFLR .000

SYMBOL PHI ALPHAT MACH
 150.000 -4.250 1.555
 165.000 -.120
 180.000

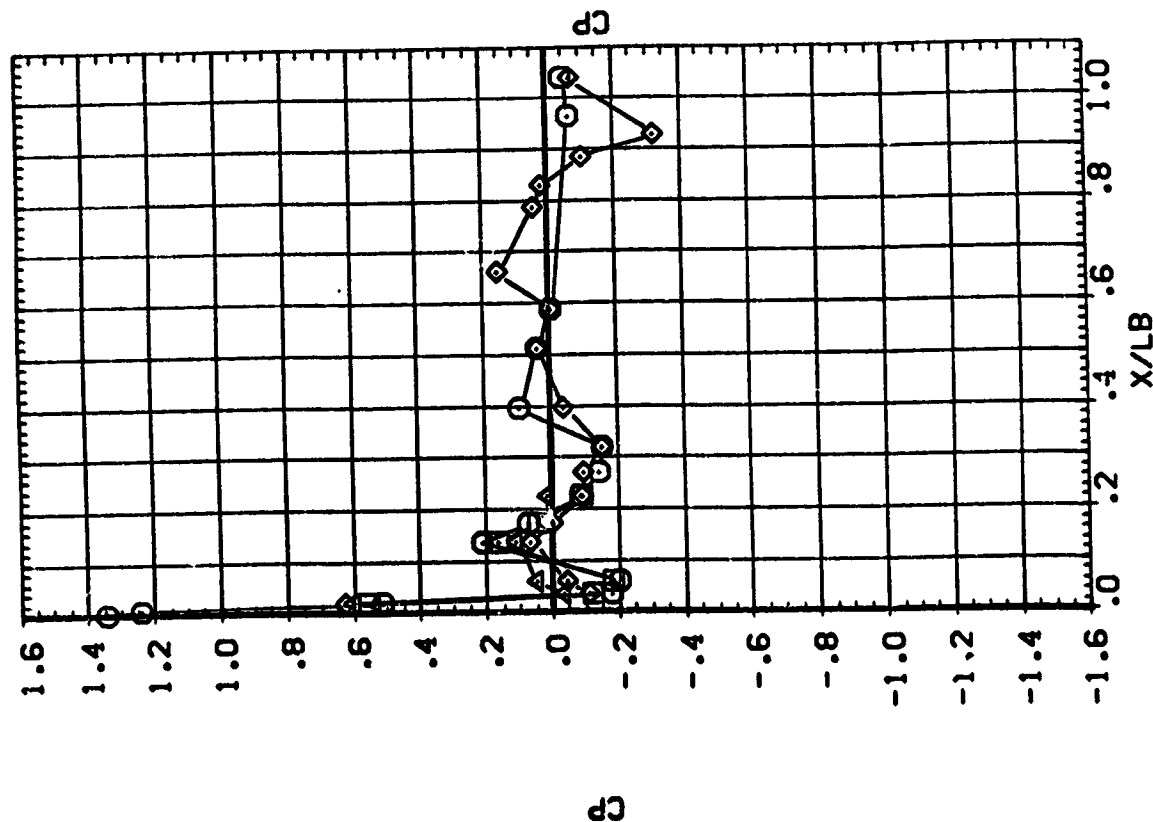
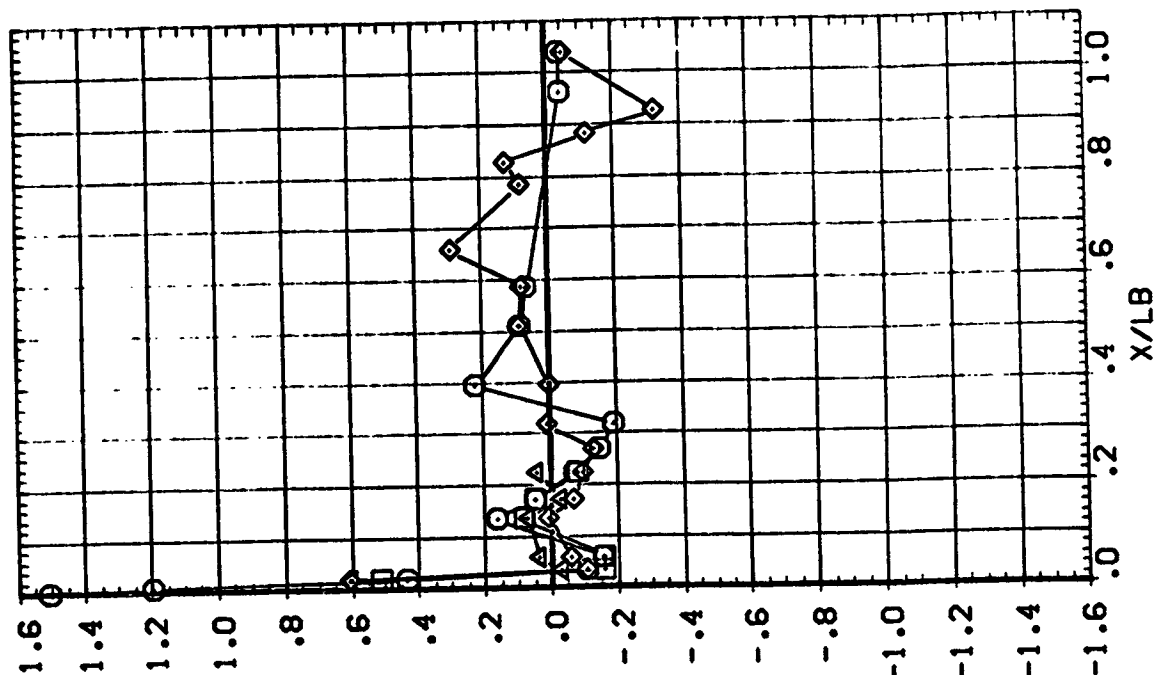


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RB0BC::)

PARAMETRIC VALUES
 BETA: .000 CRBINC .500
 RUDDER .000 ELEVON .000
 RUDELR .000

PHI .000 ALPHA 4.010 MACH 1.555
 20.000 8.130
 40.000
 55.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBC901)

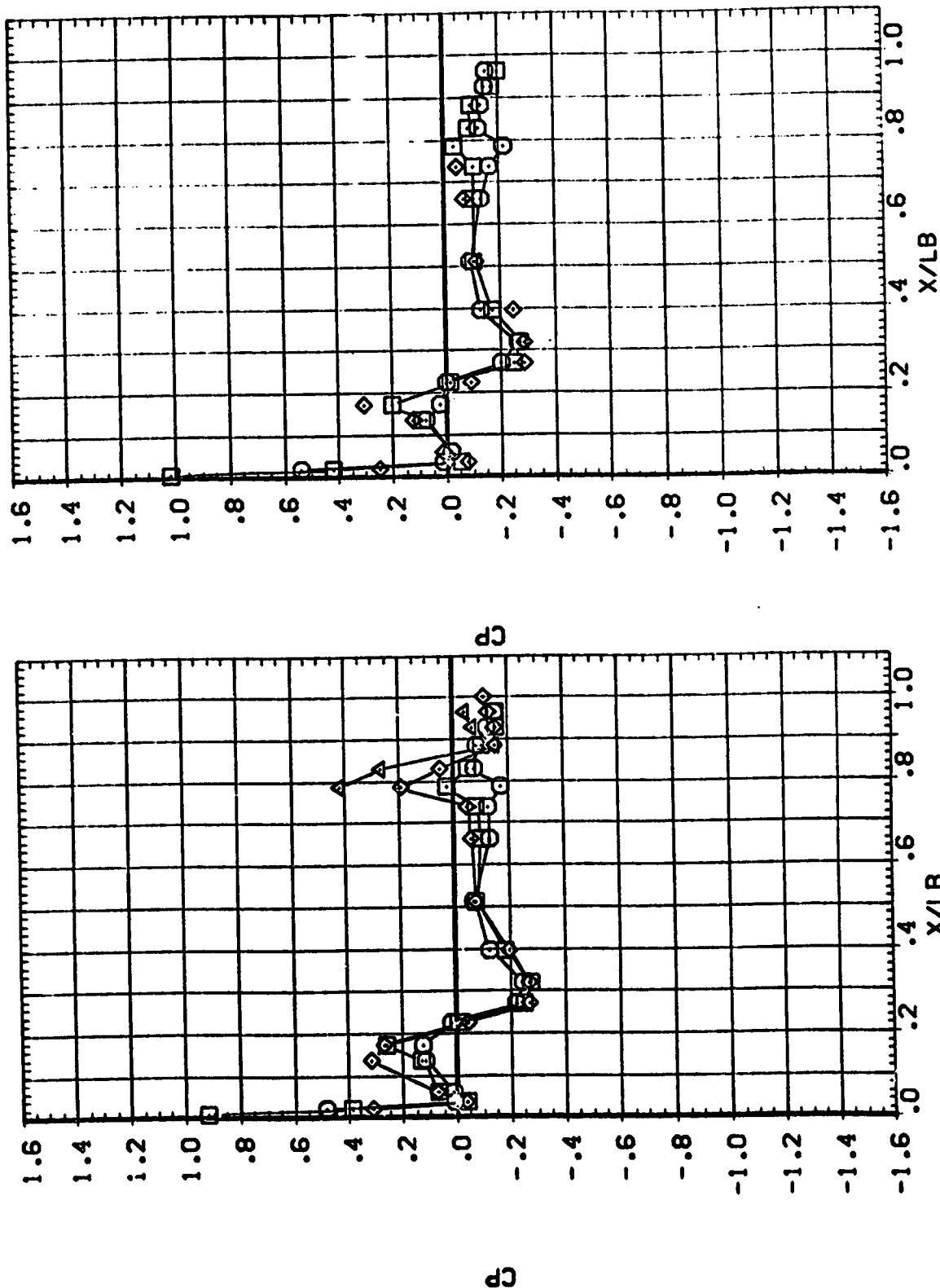
SYMBOL
 ○ □ ◇ △

PHI
 70.000
 90.000
 120.000
 135.000

ALPHAT
 4.010
 8.130

MACH
 1.555

PARAMETRIC VALUES
 BETAT .000
 RUDDER .000
 RUOFLR .000
 CRBINC .500
 ELEVON .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

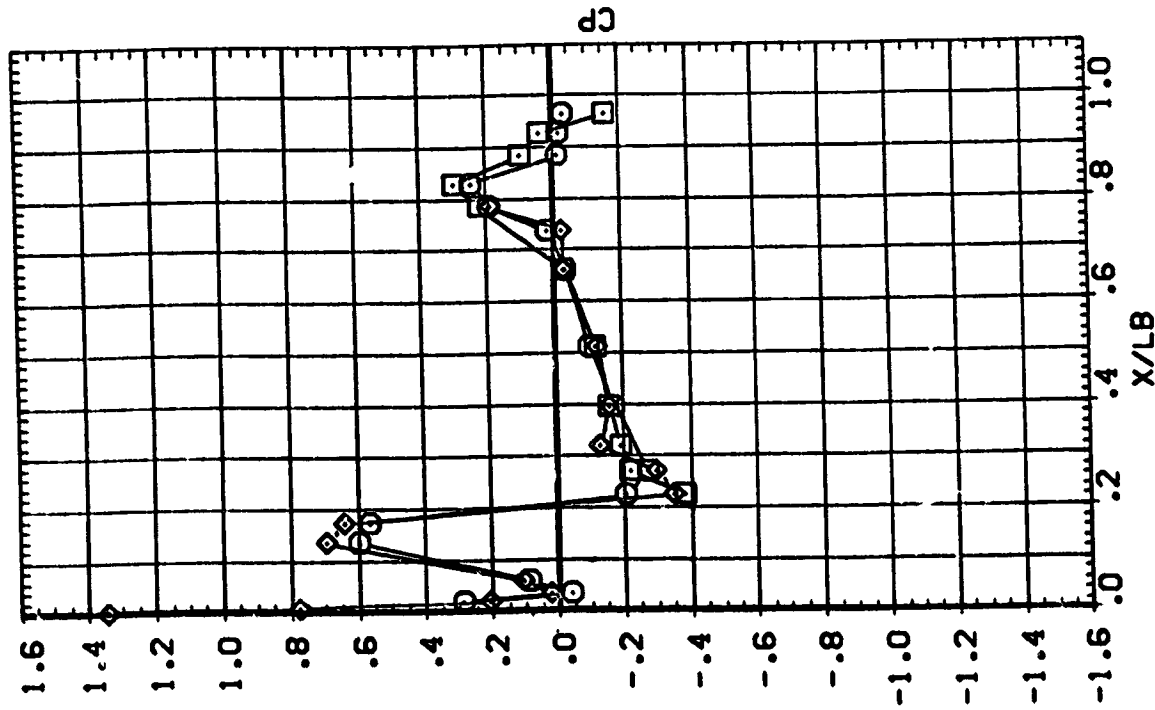
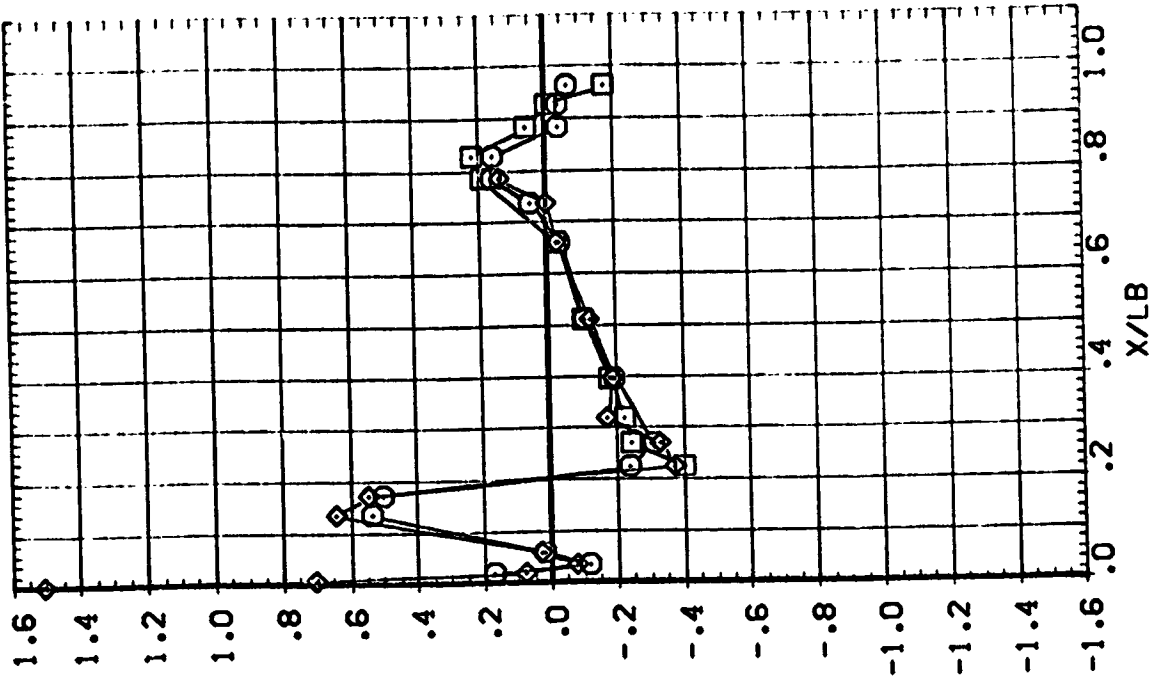
SYMBOL
 ○
 □
 ◇

PHI
 150.000
 165.000
 180.000

ALPHAT
 4.010
 8.130

MACH
 1.555

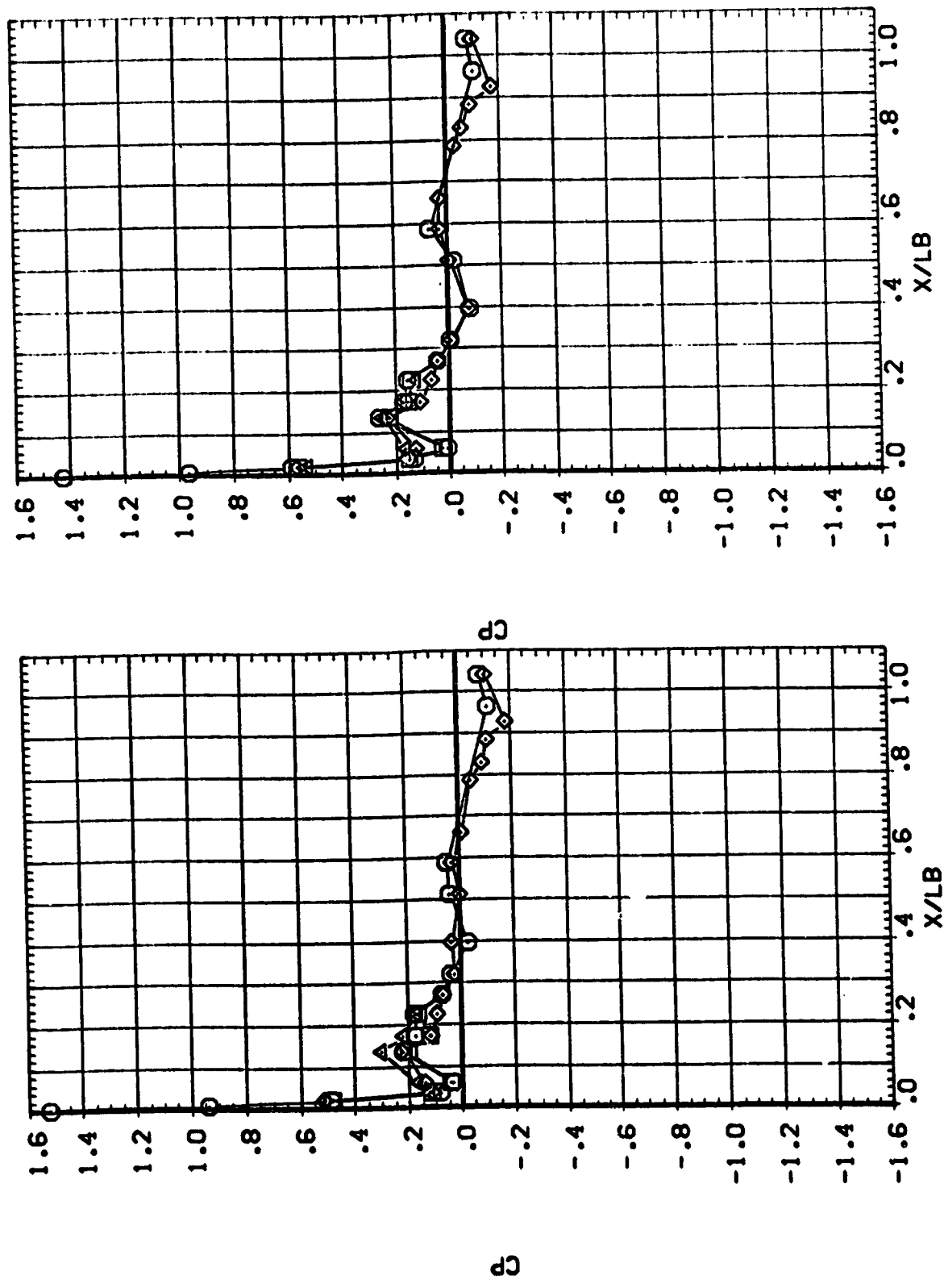
PARAMETRIC VALUES
 BETAT .000 ORBINC .500
 RJOCCR .000 ELEVON .000
 RJOFLR .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 1A9 C2A + S3 + T9 ORBITER FUSELAGE (RB3801)

SYMBOL	PHI	ALPHAT	MACH	BETAT	PARAMETRIC VALUES
○	.000	-4.250	2.000	R_UDDER	.000 ORBINC
□	20.000	-.160		R_UOFFL	.000 ELEVON
◇	40.000				.000
△	55.000				.500



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RB0801)

SYMBOL
 ○
 □
 ◇
 △

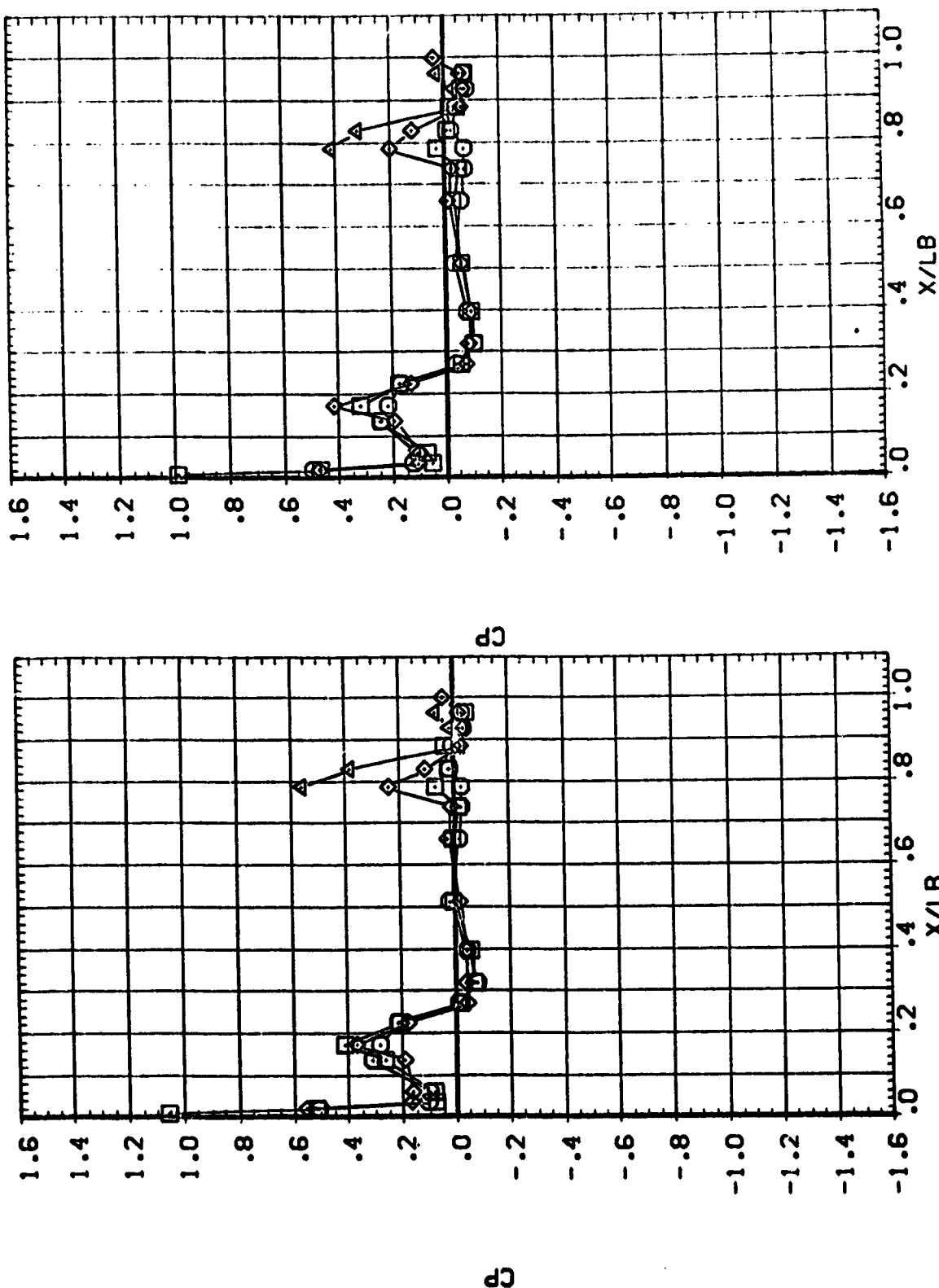
PHI
 70.000
 90.000
 120.000
 135.000

ALPHA
 -4.250
 -1.160

MACH
 2.000

BETAT
 RJOER
 RJOELR

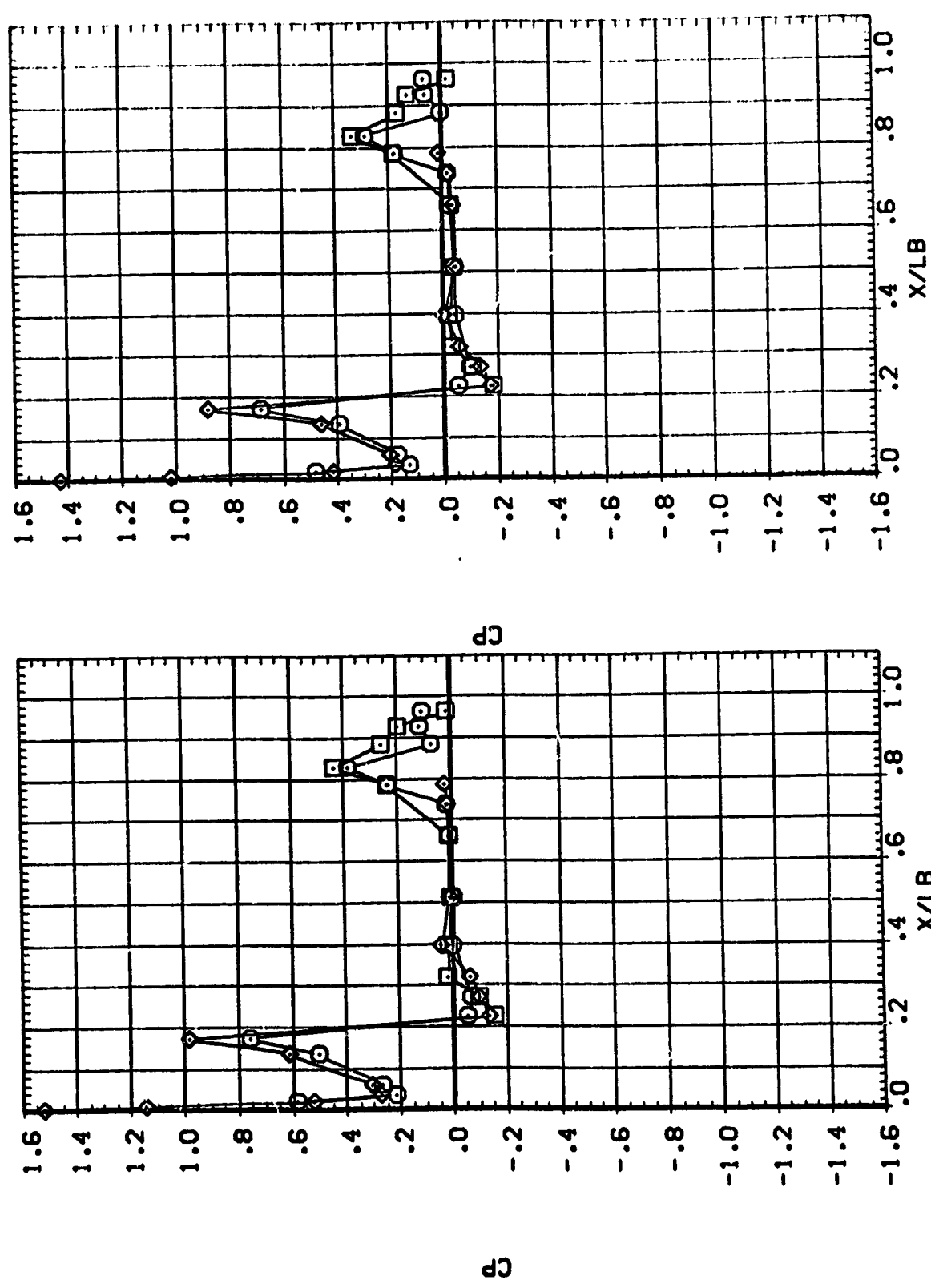
PARAMETRIC VALUES
 .000 CRBINC
 .000 ELEVON
 .500 .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RB0B01)

SYMBOL	PHI	ALPHAT	MACH	BETAT	PARAMETRIC VALUES
□	150.000	-4.250	2.000	RJ00R	.000 CRBINC
○	165.000	-.160		RJ0FLR	.000 ELEVON
◇	180.000				.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (R3030:)

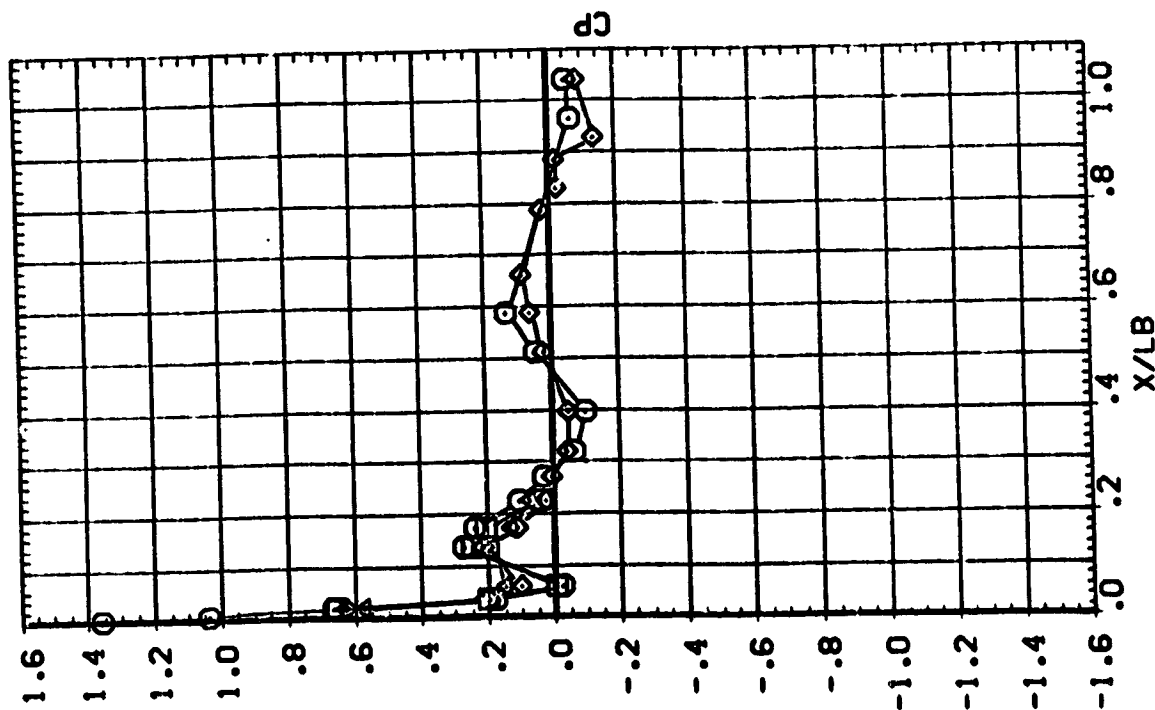
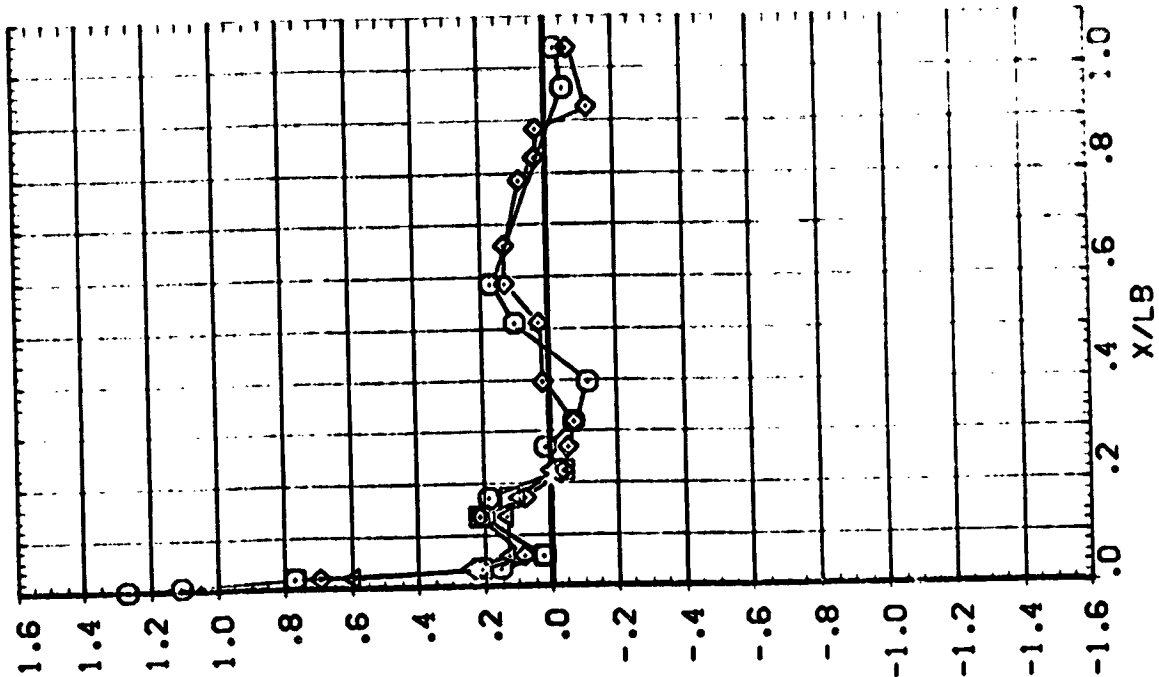
SYMBOL
 ○ □ ◇ △

PHI
 .000
 20.000
 40.000
 55.000

ALPHA
 3.930
 8.020

MACH
 2.000

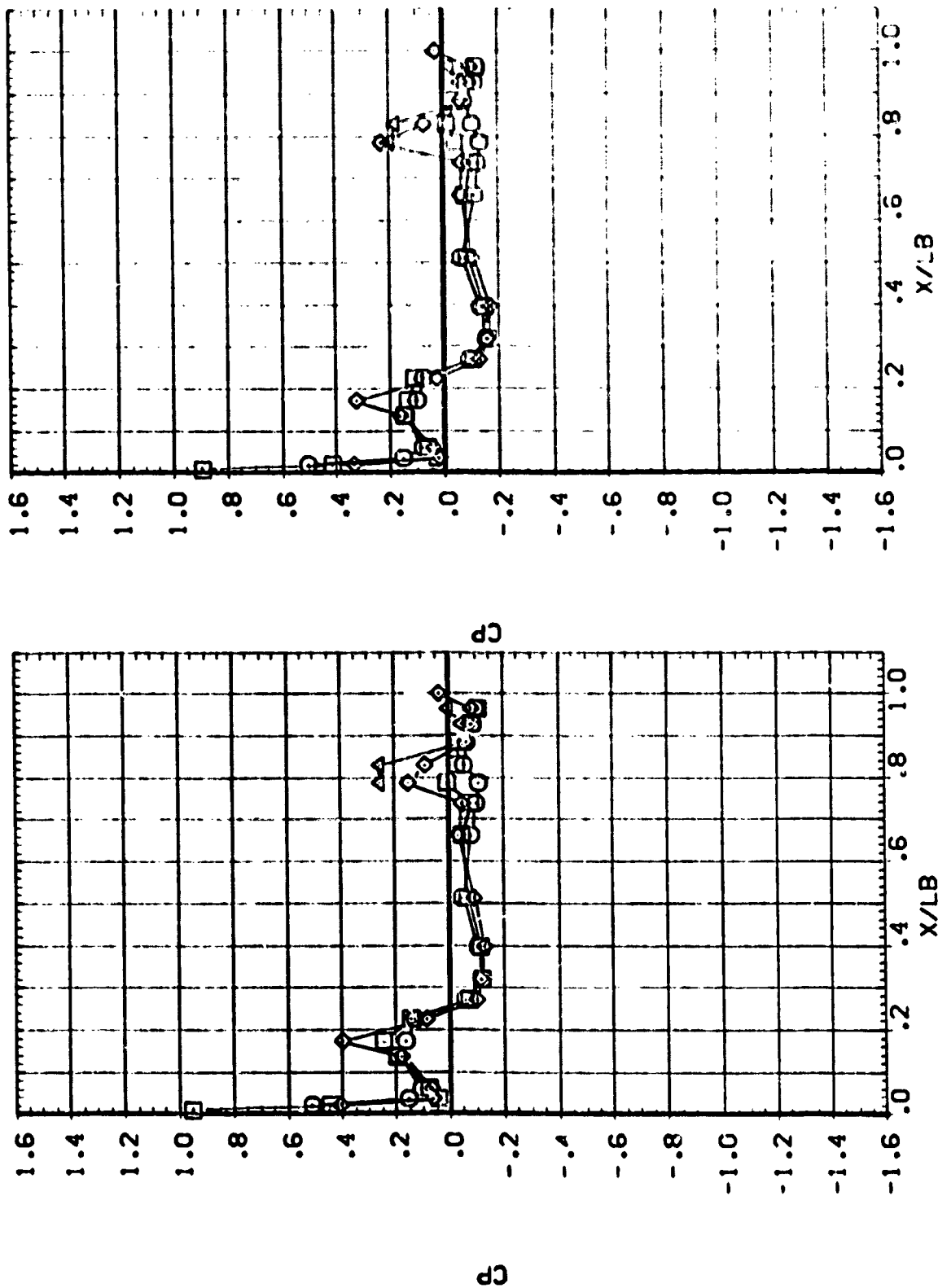
PARAMETRIC VALUES
 BEAT .000 CRBINC .500
 RUDER .000 ELEVEN .000
 RUDLR .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 1A9 02A + S3 + 19 ORBITER FUSELAGE (RBC30:)

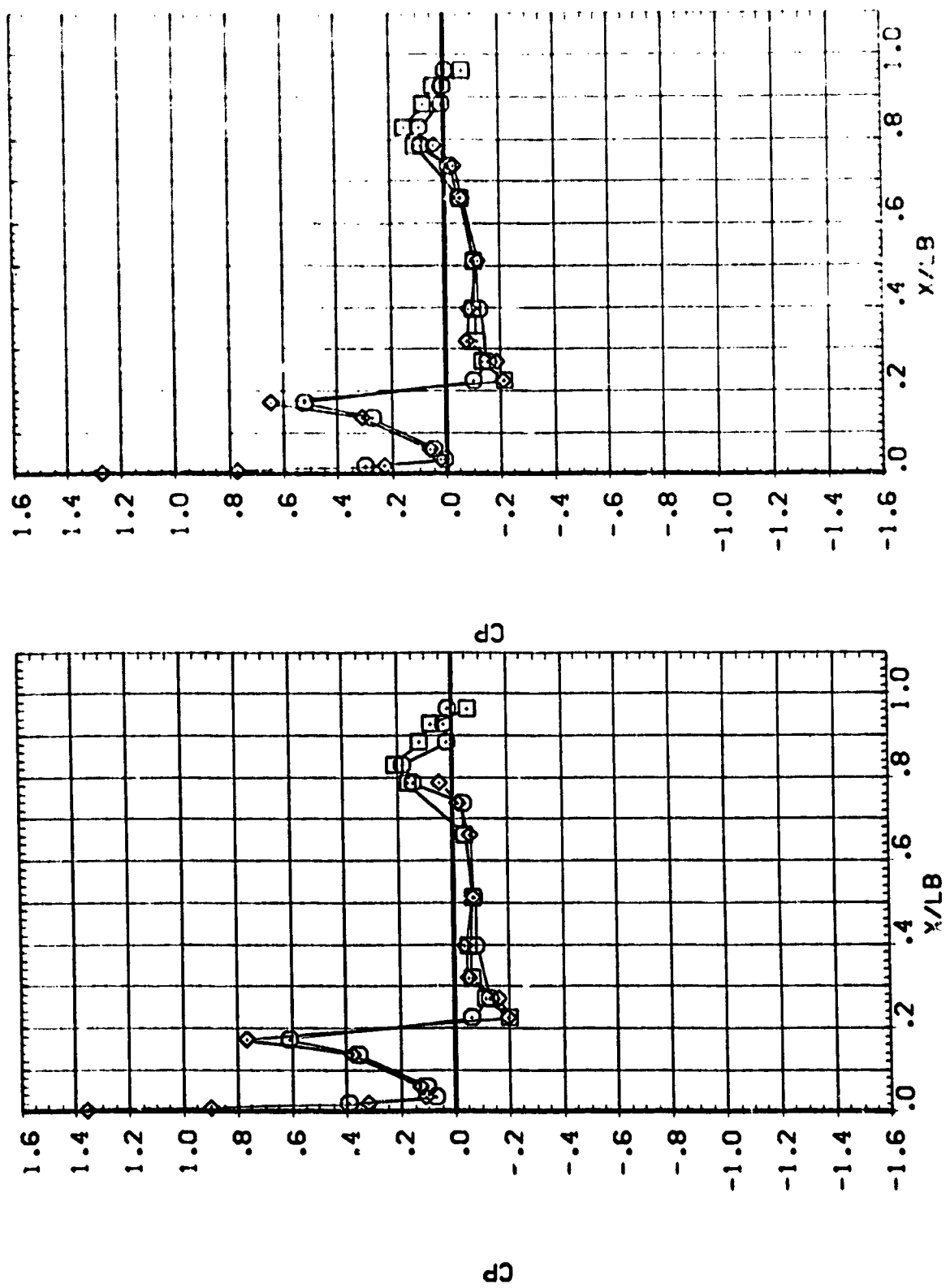
SYMBOL	PHI	ALPHAT	MACH	BETA*	PARAMETRIC VALUES
○	70.000	3.930	2.000	.000	ORIGIN
□	90.000	8.070		.000	ELEVATION
△	120.000			.000	
◇	135.000				



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBC801)

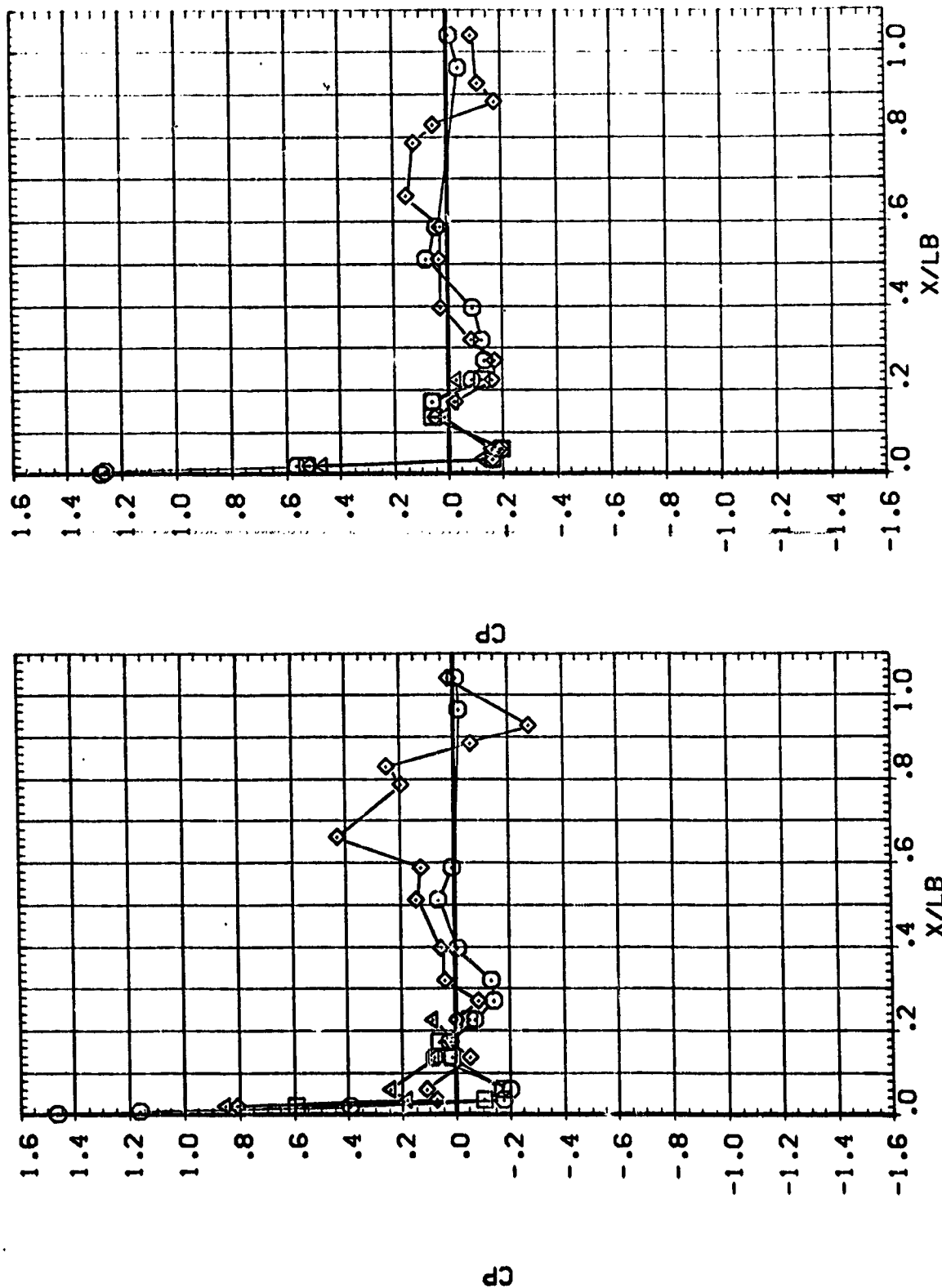
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	165.000	8.020		RUDER	0.000
	180.000			RUDFLR	0.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RB0802)

SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES			
				ALPHAT	ORBIT NC	ELEV N	
○	.000	-5.100	1.555	8.000	.000	.000	
□	20.000	5.110		.000	.000	.000	
◇	40.000						
△	55.000						



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

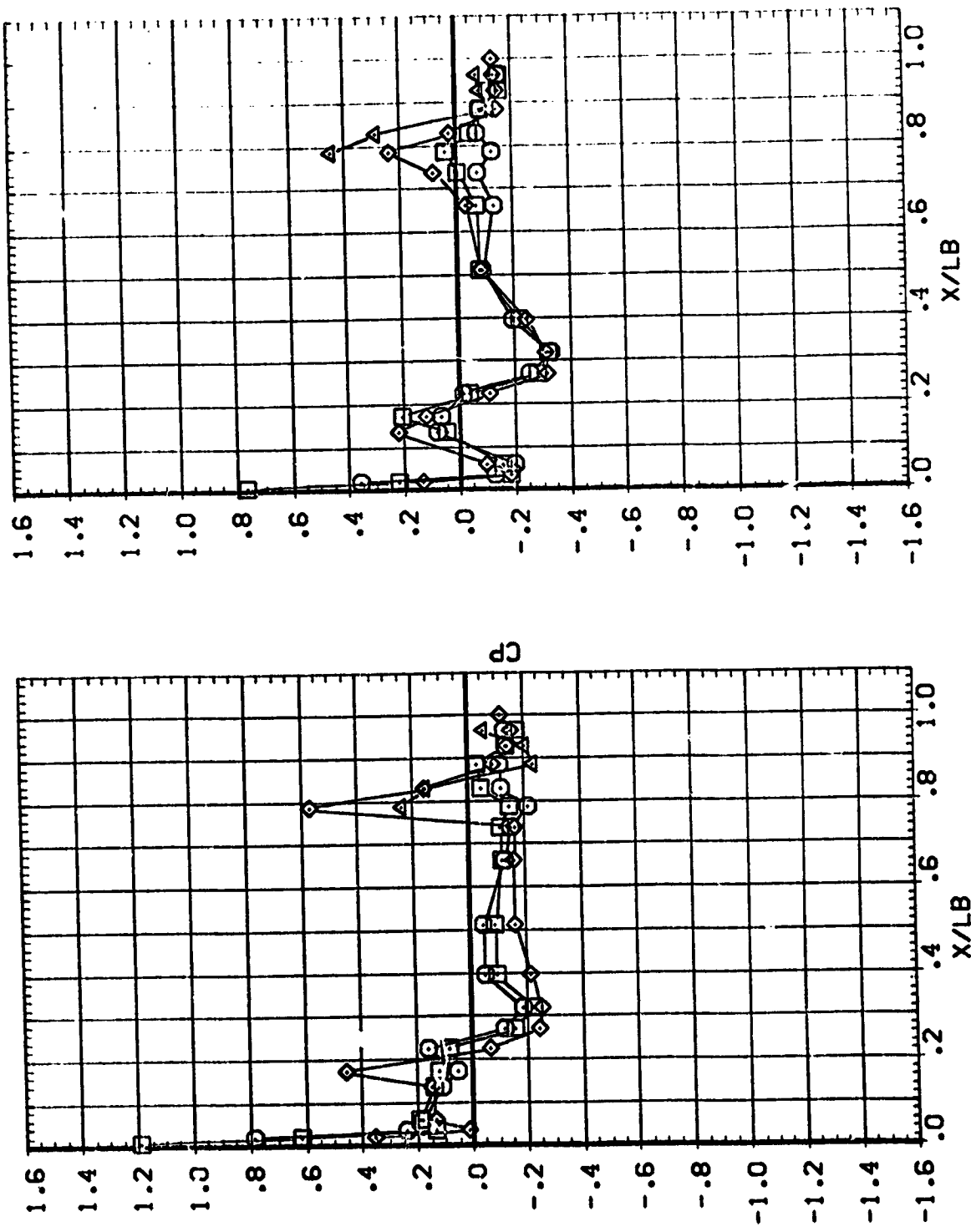
SYMBOL
 ○
 □
 ◇
 △

PHI
 70.000
 90.000
 120.000
 135.000

BETAT
 -5.100
 5.110

MACH
 1.555

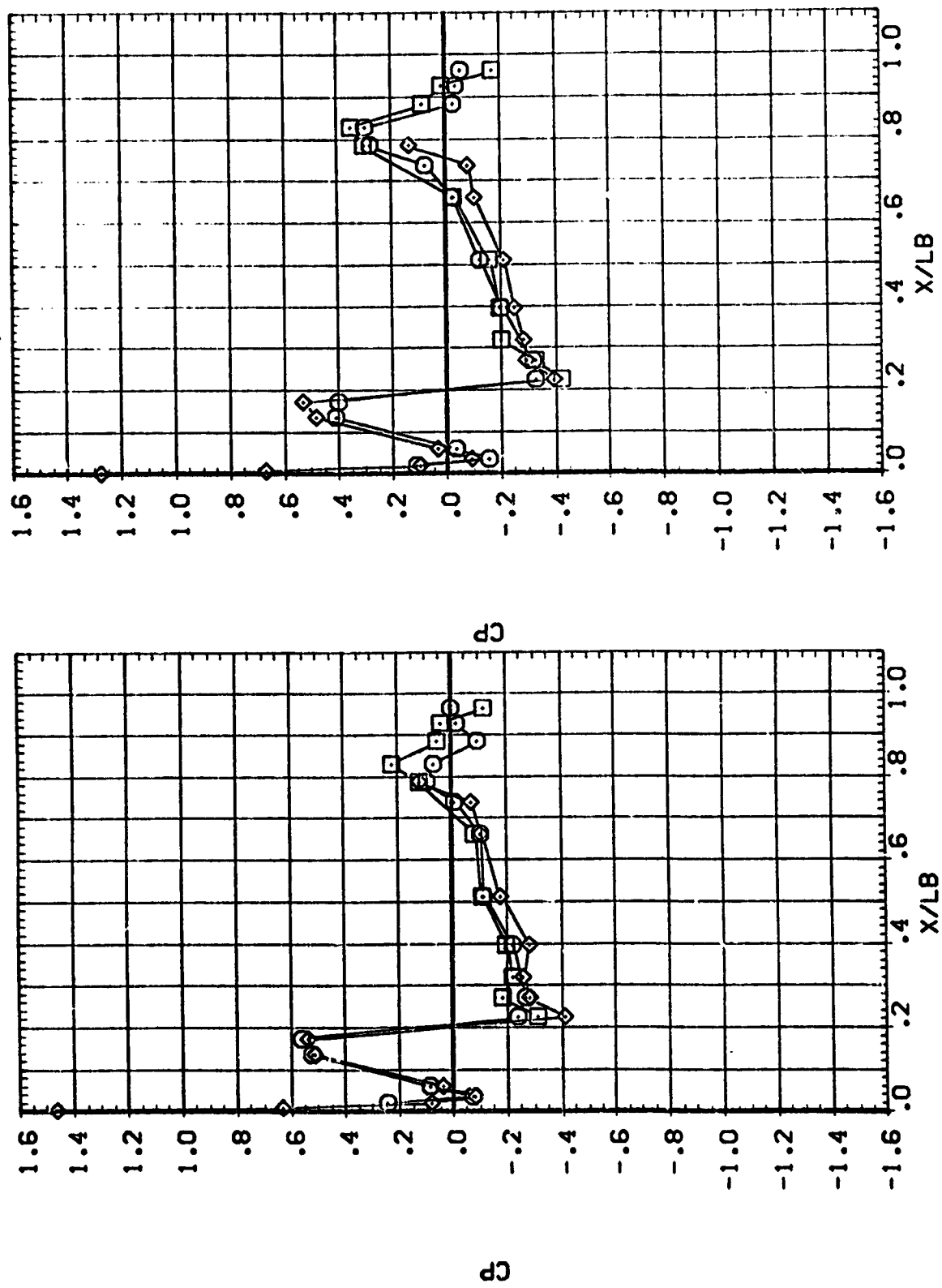
PARAMETRIC VALUES
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 RUDDER .000
 RUOFLR .000
 CRBINC .500
 ELEVEN .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (R90BC2)

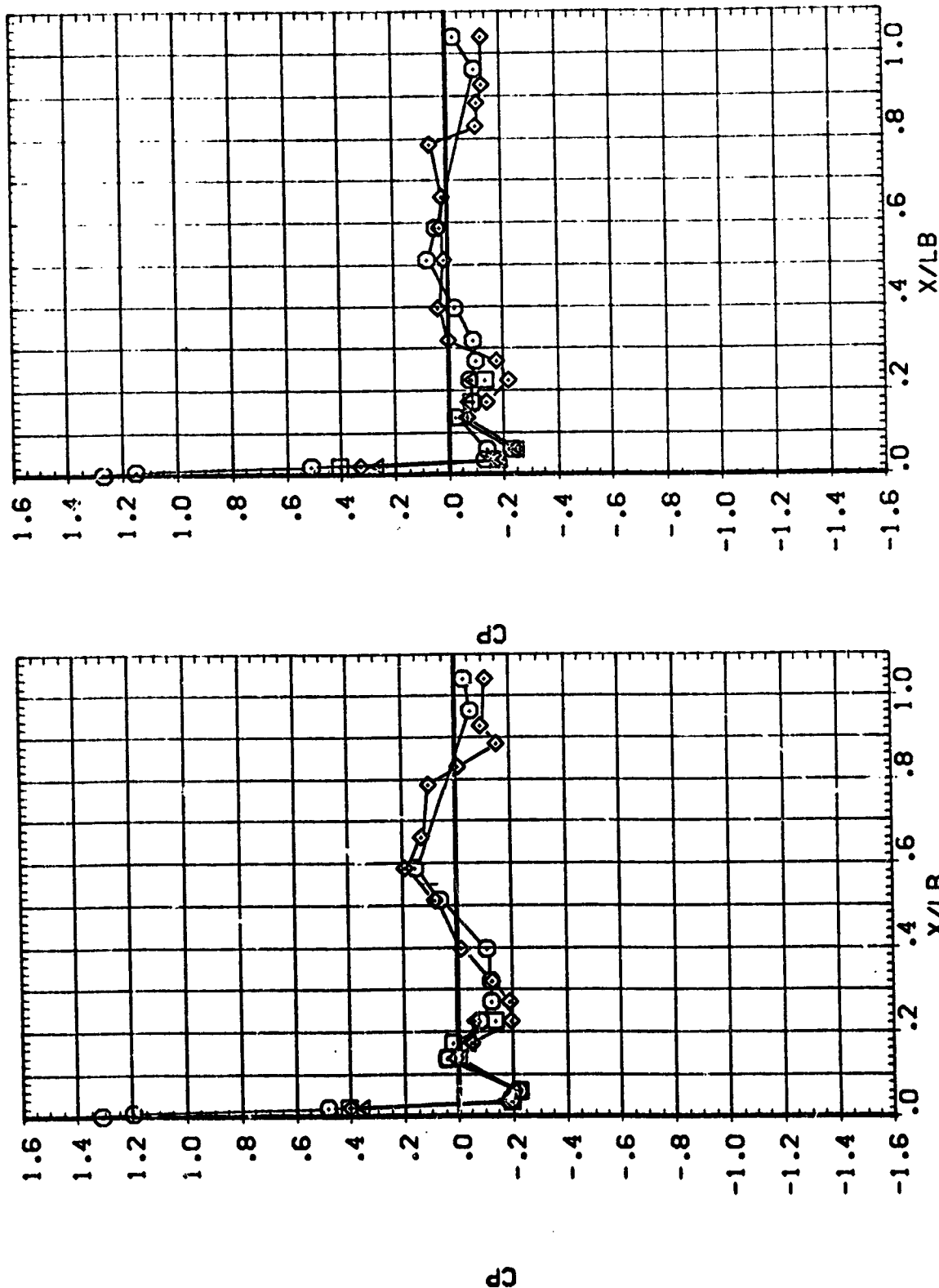
SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES
○	150.000	-5.100	1.555	ALPHA 8.000
□	165.000	5.110		RODOR .000
◇	180.000			ELEVON .000
				ROFLR .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (R80B02)

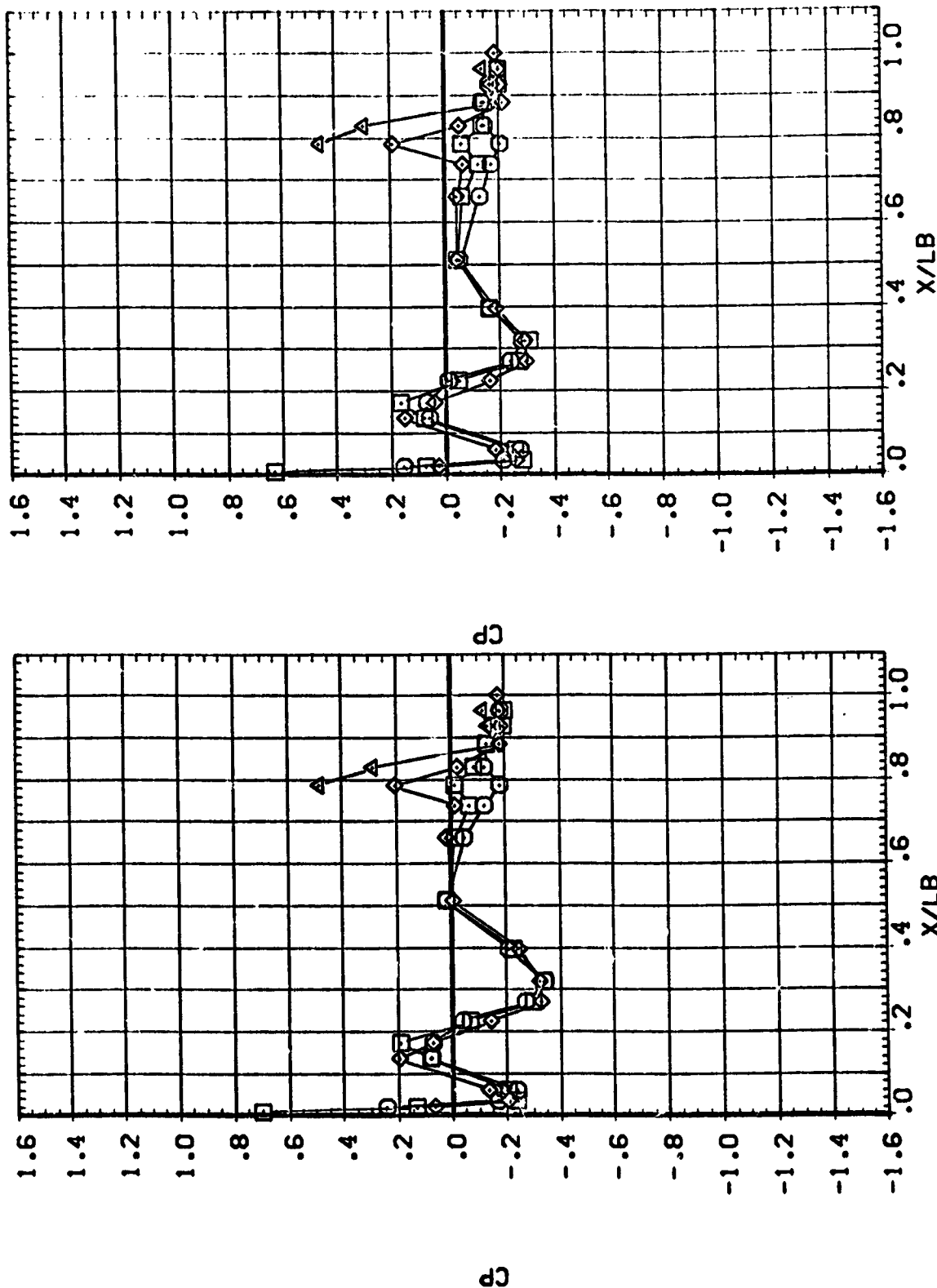
SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES
○	.000	7.140	1.555	ALPHAT 8.000
□	20.000	9.190		RJDDER .000
◇	40.000			RJDFLR .000
△	55.000			CRBINC .500
				ELEVEN .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (R80B02)

SYMBOL		PHI	BETAT	MACH	PARAMETRIC VALUES	
□	70.000	7.140	1.555	ALPHAT	8.000	CRBINC
□	90.000	9.190		RUDDER	.000	ELEVEN
◇	120.000			RJDFLR	.000	
△	135.000					



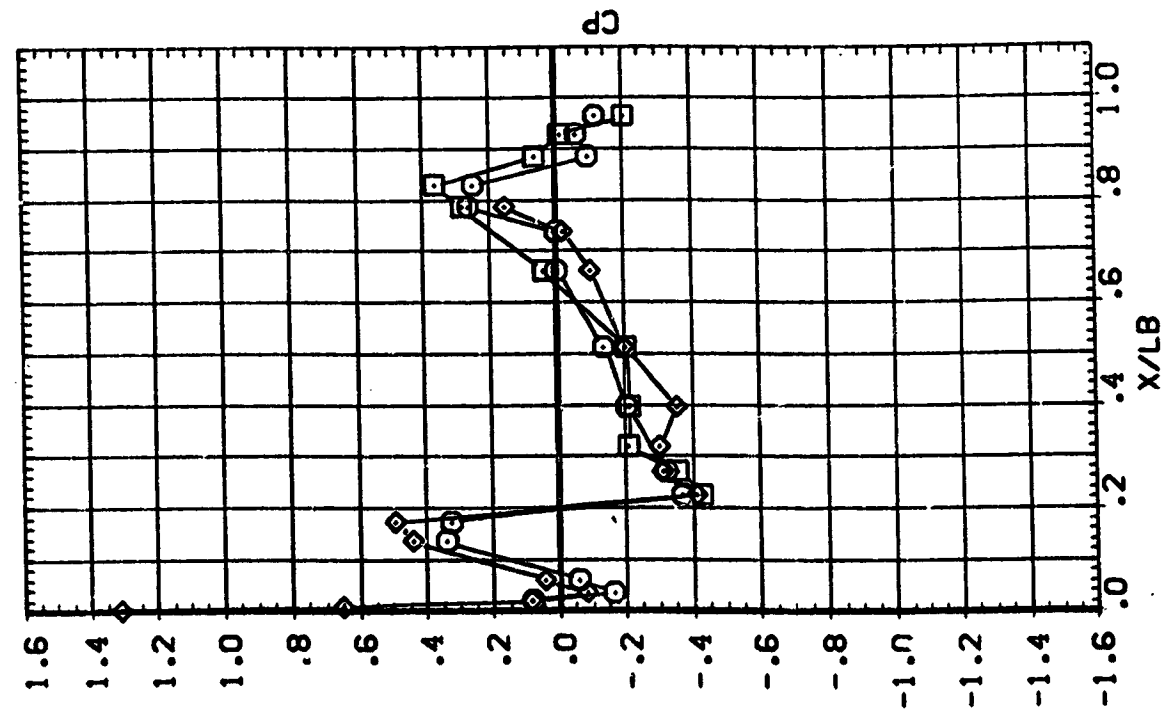
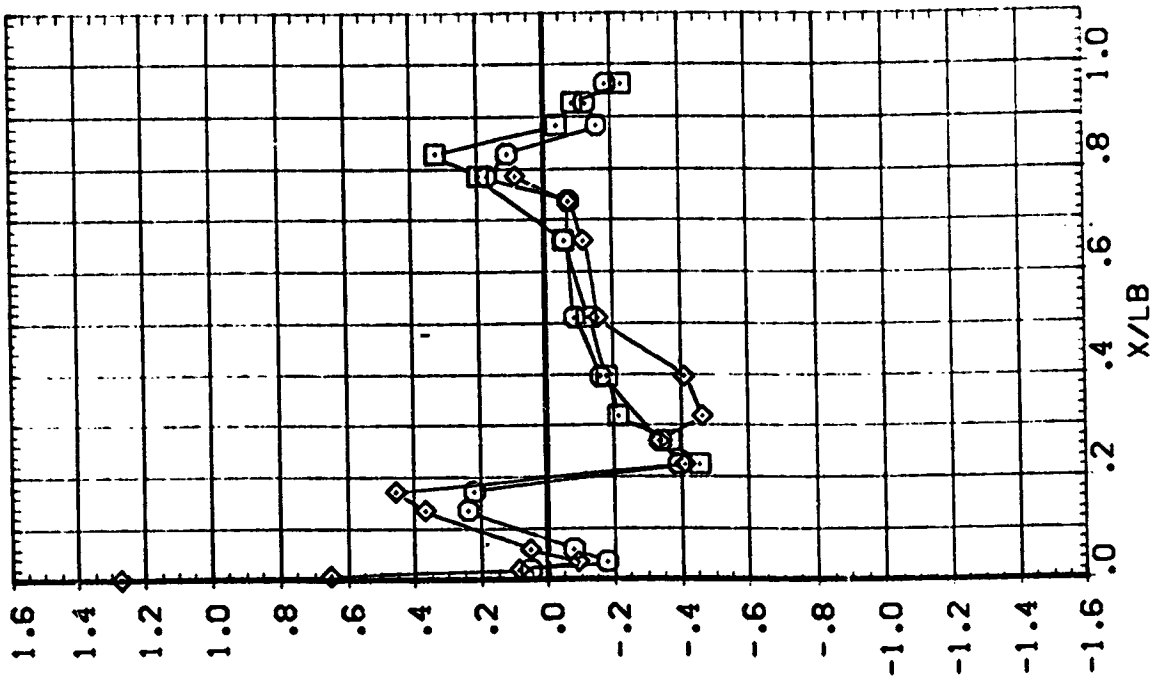
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBC302)

PARAMETRIC VALUES
 8.000 ORBINC
 .000 ELEVON
 .000

ALPHA
 RUDDER
 RUDFLR

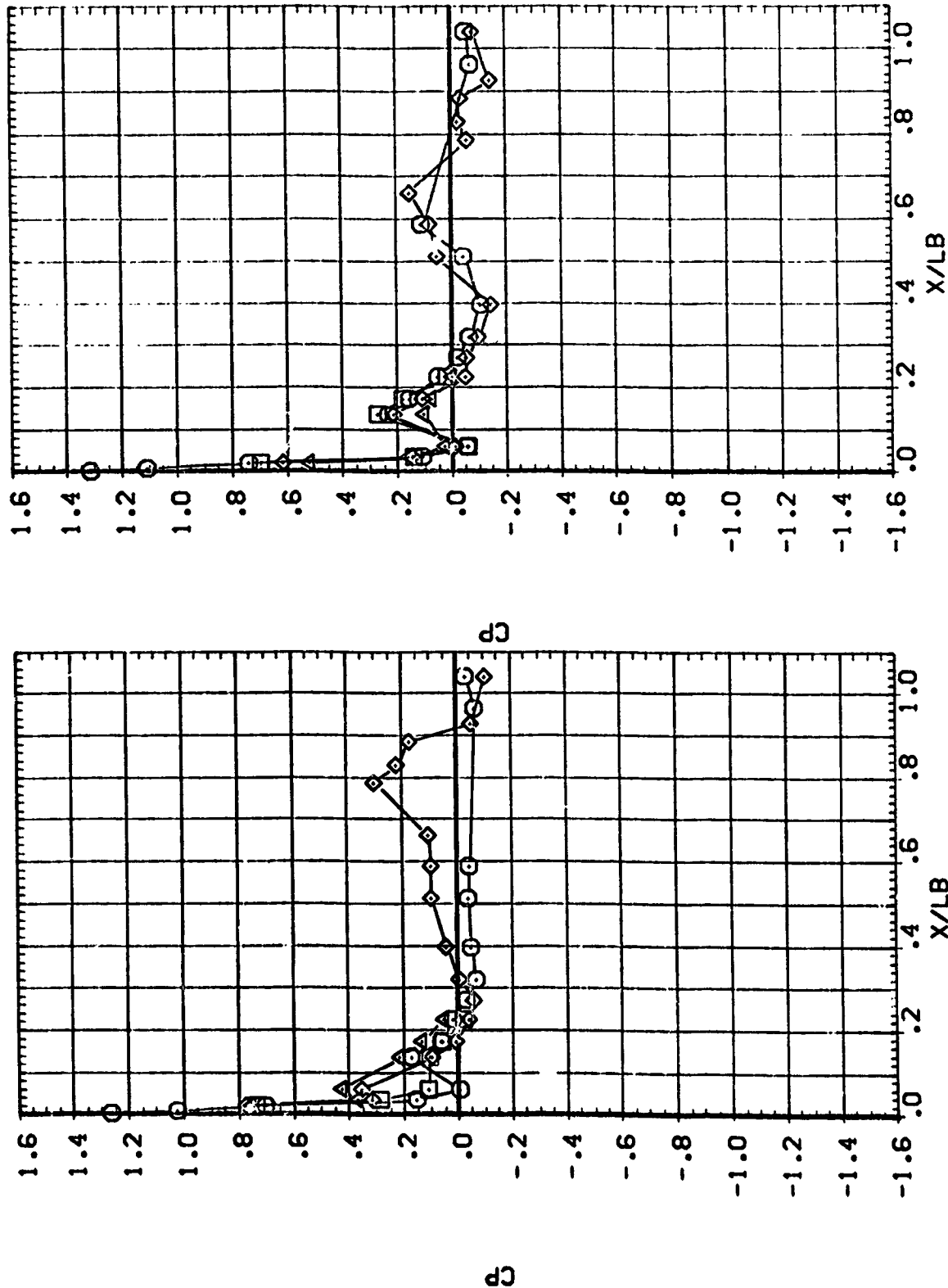
PHI 150.000 MACH 1.555
 165.000
 180.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RB302)

SYMBOL	PHI		BETAT		MACH		PARAMETRIC VALUES			
	0.000	20.000	-6.270	3.990	2.000		ALPHA	8.000	CRBINC	.500
○	40.000						RUDDER	.000	ELEVON	.000
□	55.000						RUFER	.000		
◇										
△										



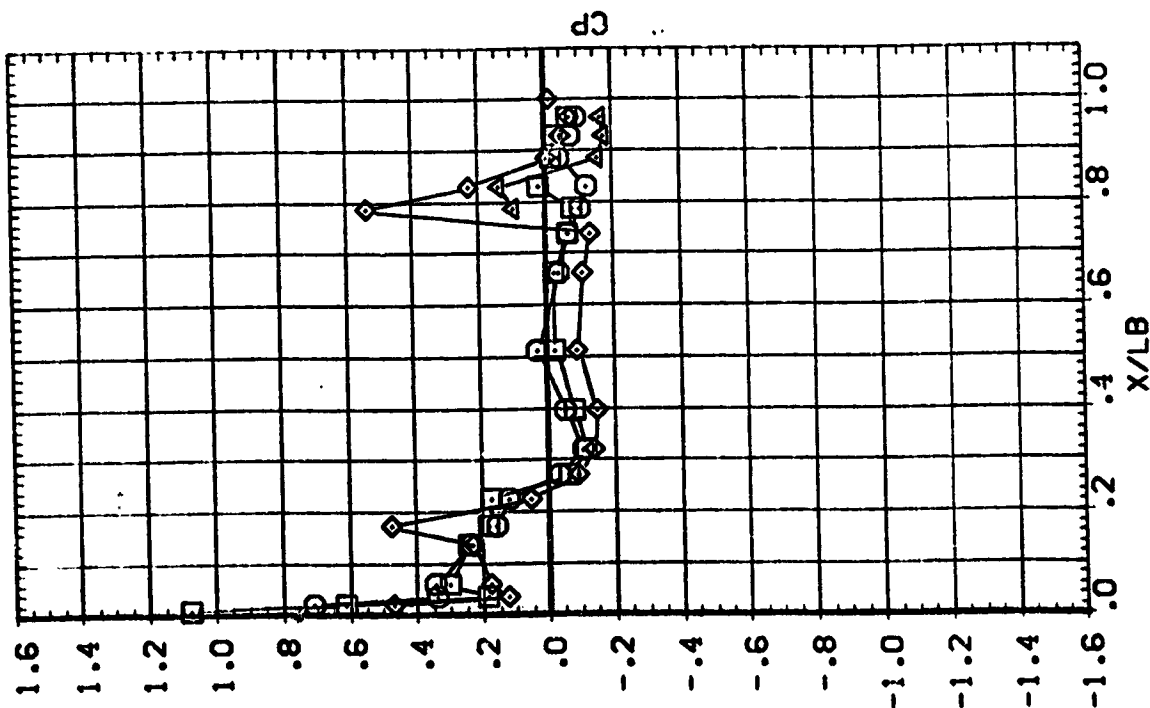
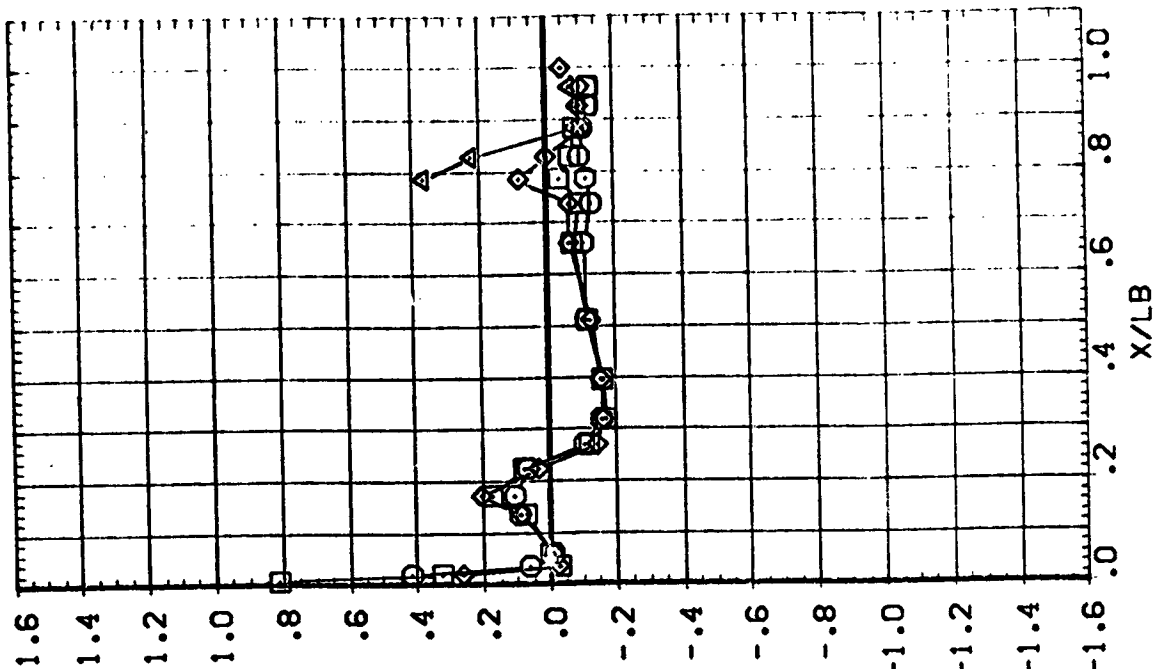
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RB0B02)

PARAMETRIC VALUES
 ALPHAT 8.000
 RUDDER .000
 RUDDL 1.000
 ORBINC .500
 ELEVEN .000

PHI 70.000
 BETAT -6.270
 MACH 2.000
 90.000
 120.000
 135.000

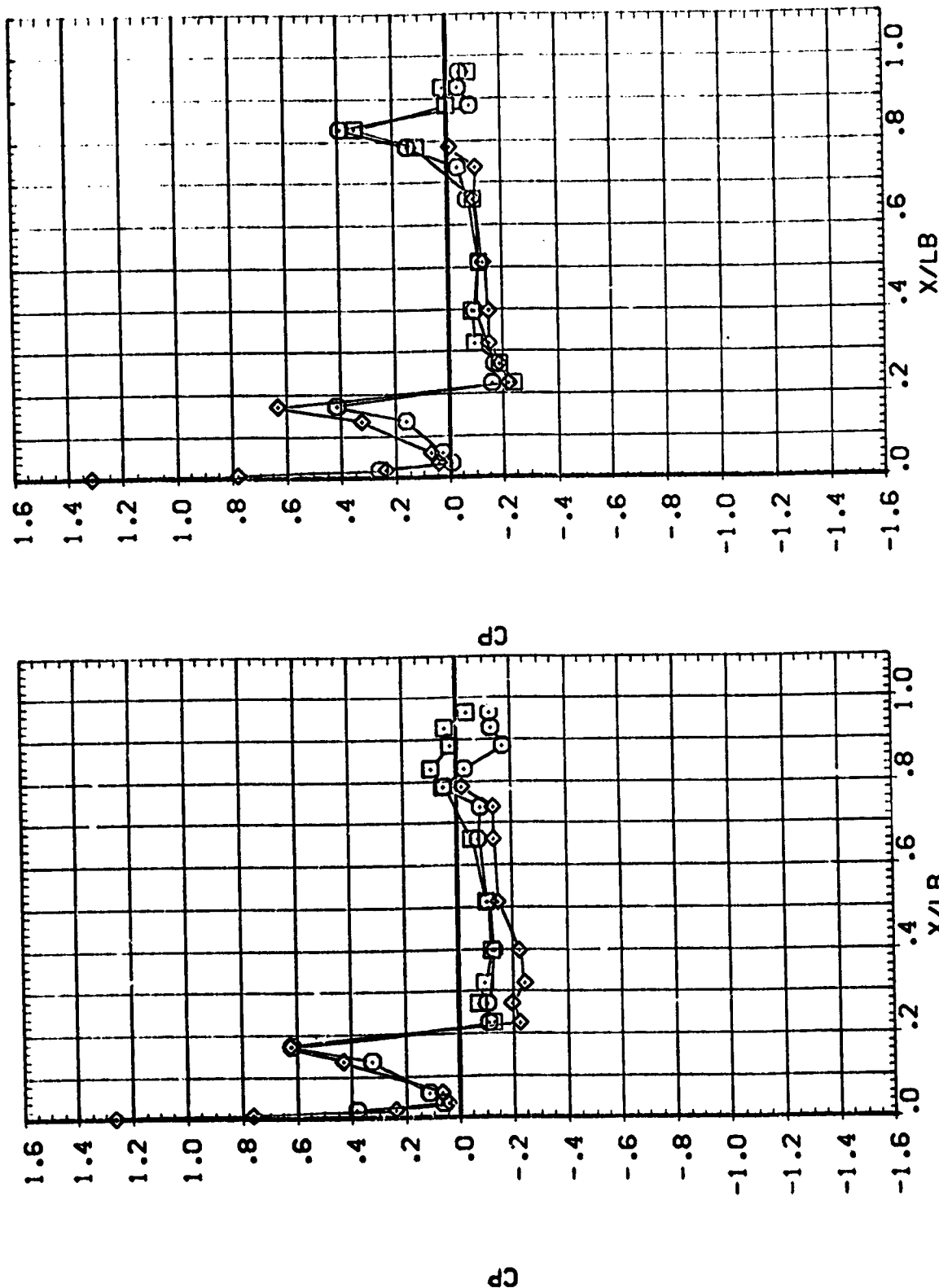
SYMBOL
 □
 ○
 ◇
 △



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RB0B02)

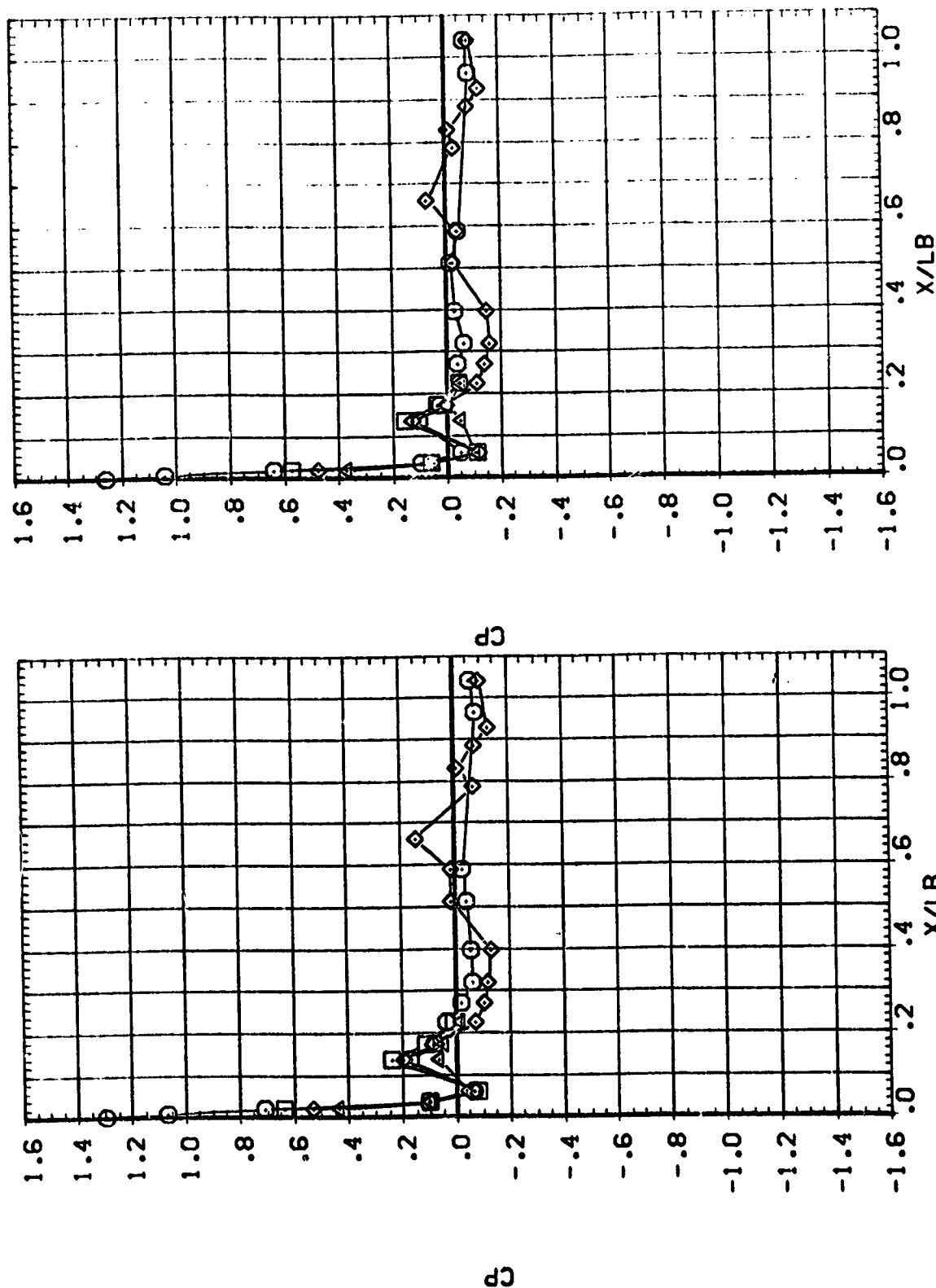
SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES
□	150.000	-6.270	2.000	ALPHAT 8.000
○	165.000	3.990		RUDER .000
◇	180.000			RJDFLR .000
				ORBITAL .500
				ELEV .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 1A9 C2A + S3 + T9 ORBITER FUSELAGE (RB0802)

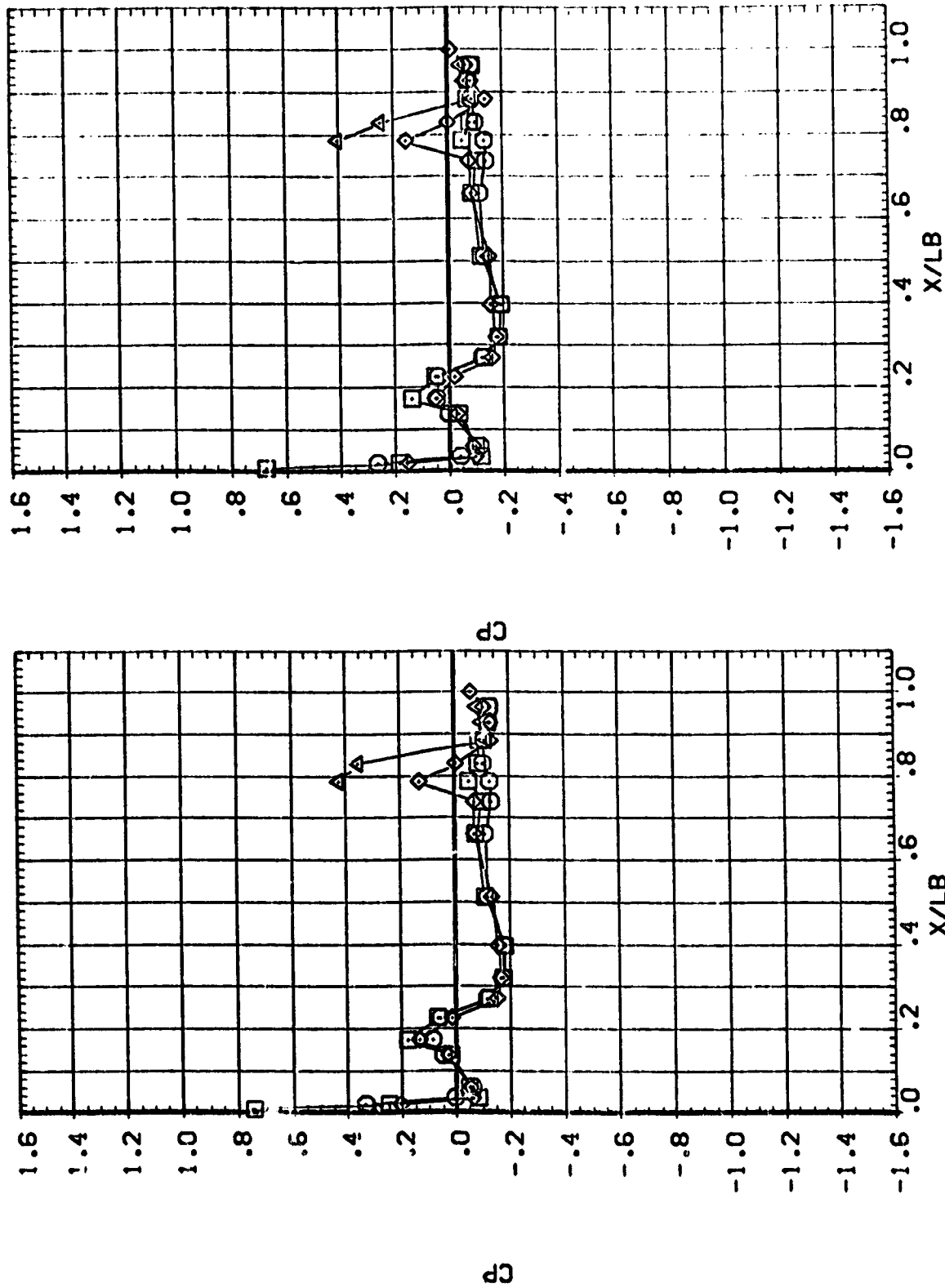
SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES
○	.000	6.060	2.000	ALPHAT 8.000
□	20.000	8.120		RUDDER .000
◇	40.000			RUDFLR .000
△	55.000			



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (R00B02)

SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES			
				ALPHAT	CRBINC	ELEVON	
□	70.000	6.060	2.000	8.000	.000	.000	
◇	90.000	8.120		.000	.000	.000	
△	120.000			.000	.000	.000	
	135.000						



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (R8C8C2)

SYMBOL

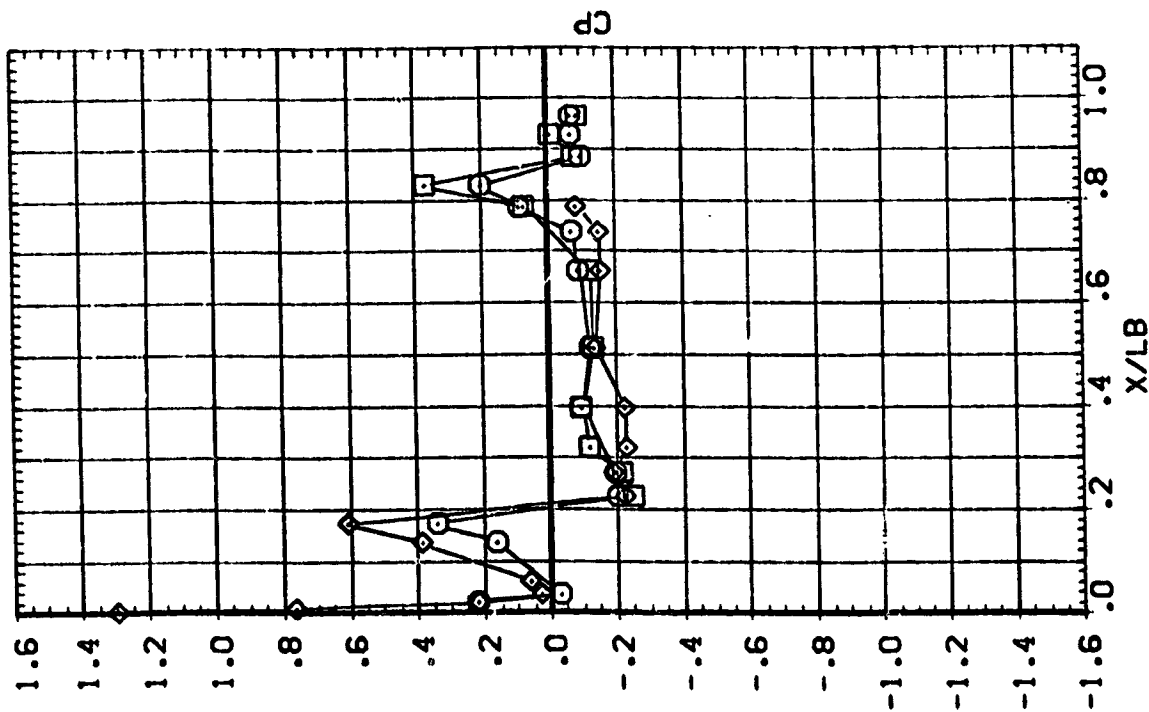
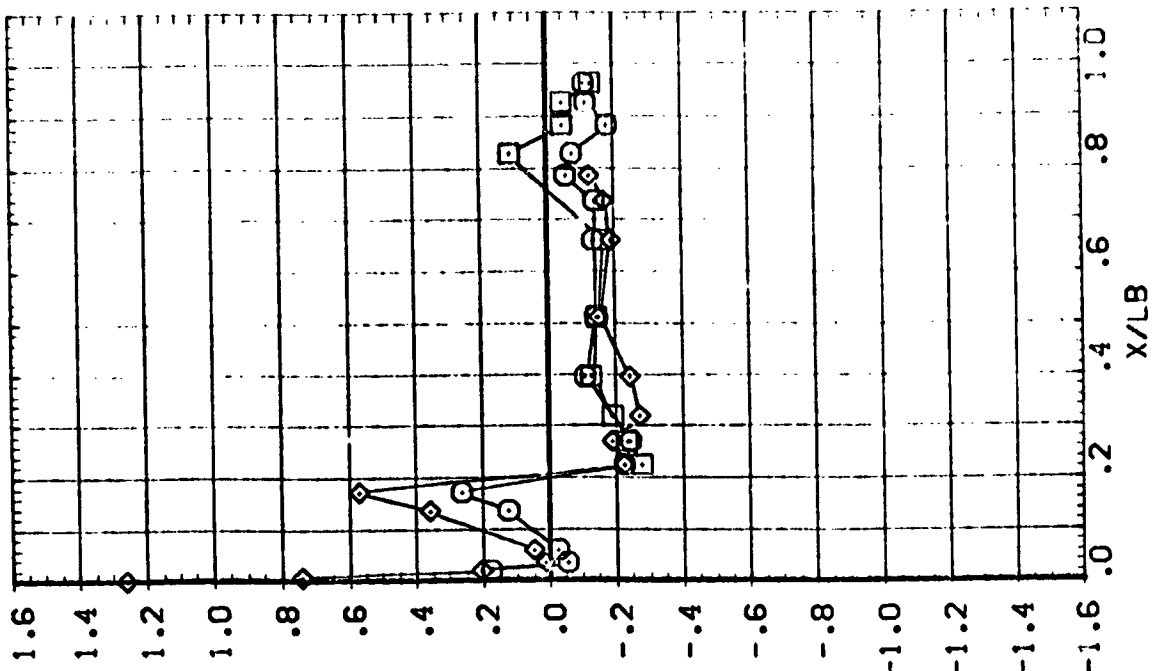
PHI
150.000
165.000
180.000

BETAT
6.060
9.120

MACH
2.000

PARAMETRIC VALUES
ALPHA 8.000
RUDER .000
RUDFLR .000

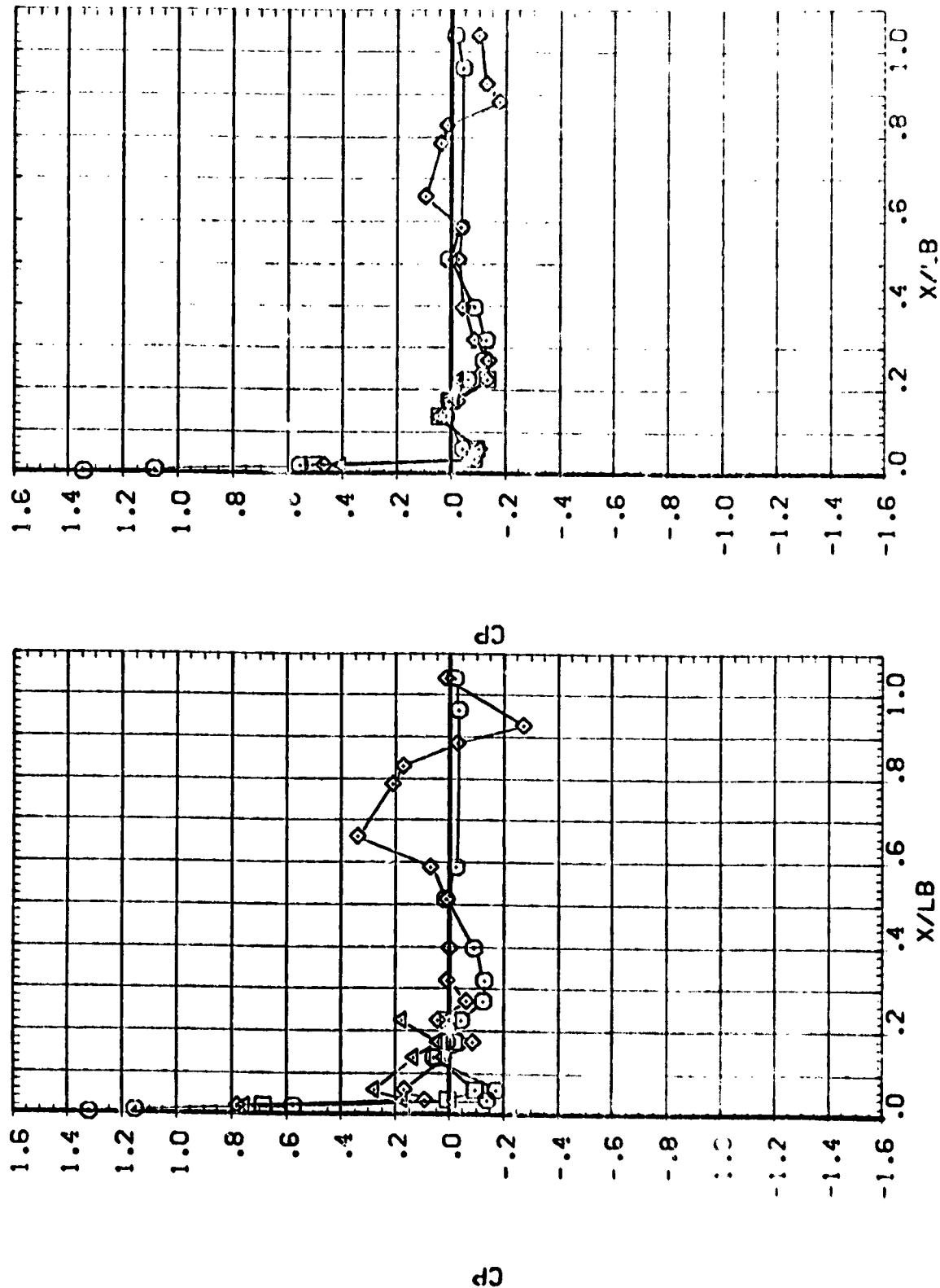
ORBITING
ELEVEN
.500
.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RB330C4)

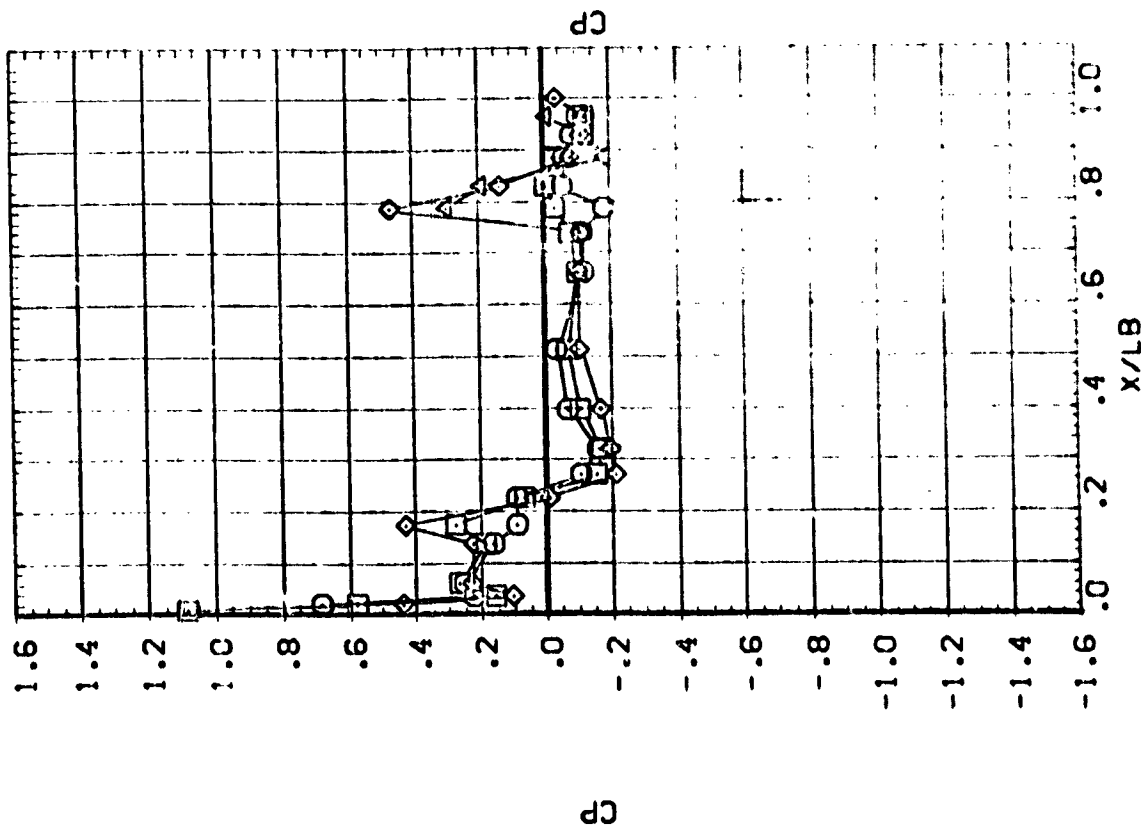
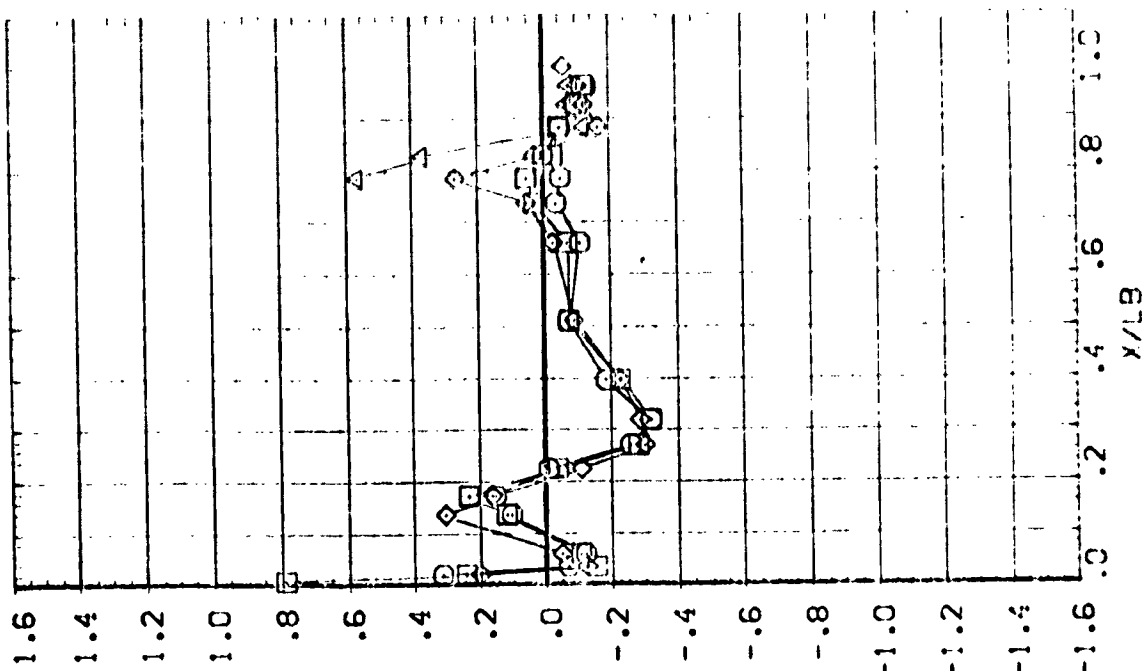
3M32L	PHI	BETAT	MACH	PARAMETRIC VALUES	
○	.000	-5.070	1.555	ALPHA*	ORBITAL
□	20.000	5.060		POSSID	ELEVON
◇	40.000			POSSID	
△	55.000				



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

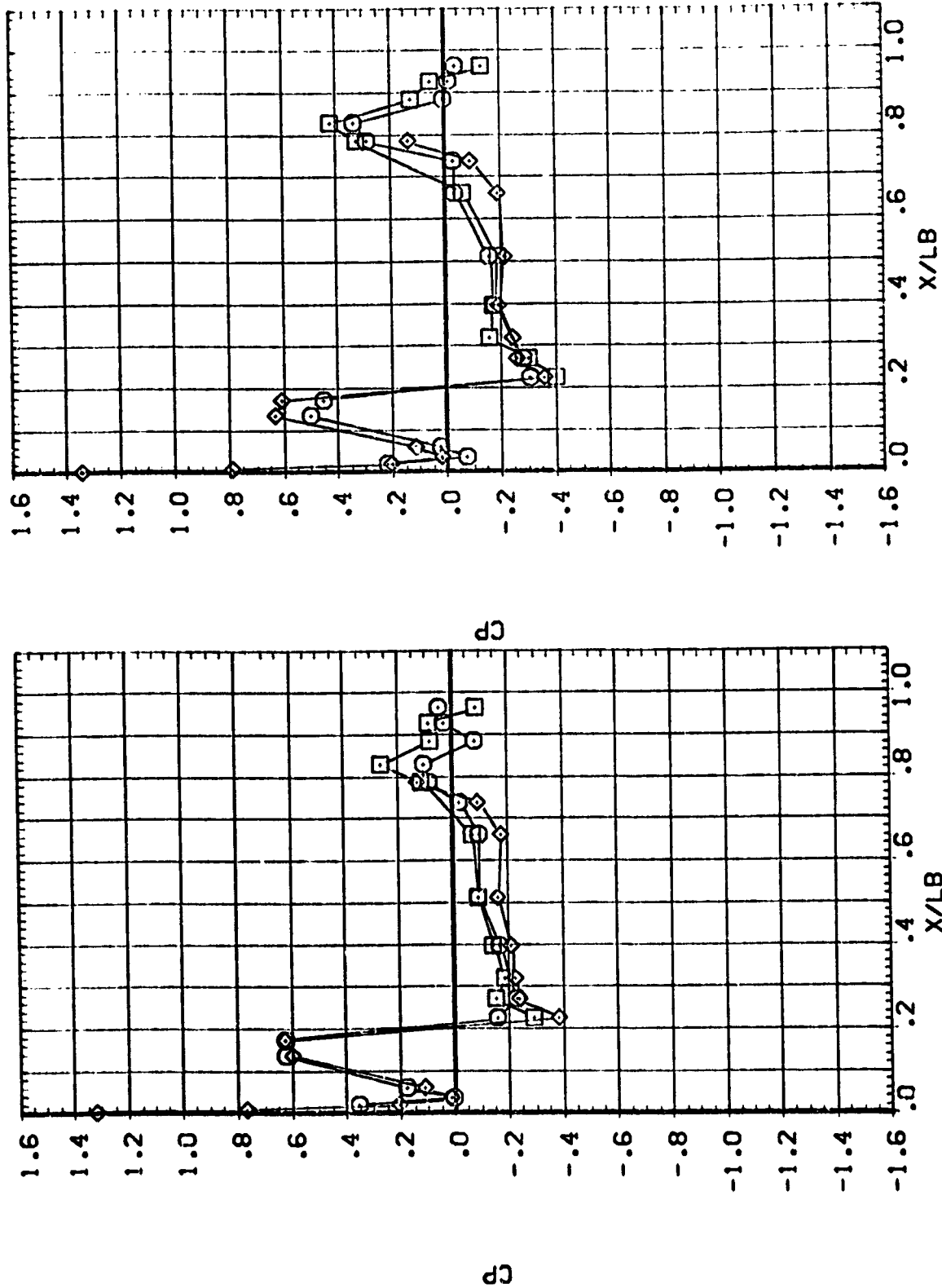
AMES 97-707 IAS 02A + S3 + T9 ORBITER FUSELAGE (R80804)

SYMBOL	PMI	BETAT	MACH	PARAMETRIC VALUES	
				ALPHAT	4.000
○	70.000	-5.070	1.555	RUDDER	0.000
□	90.000	5.060		FLR	0.000
◇	120.000				
△	135.000				



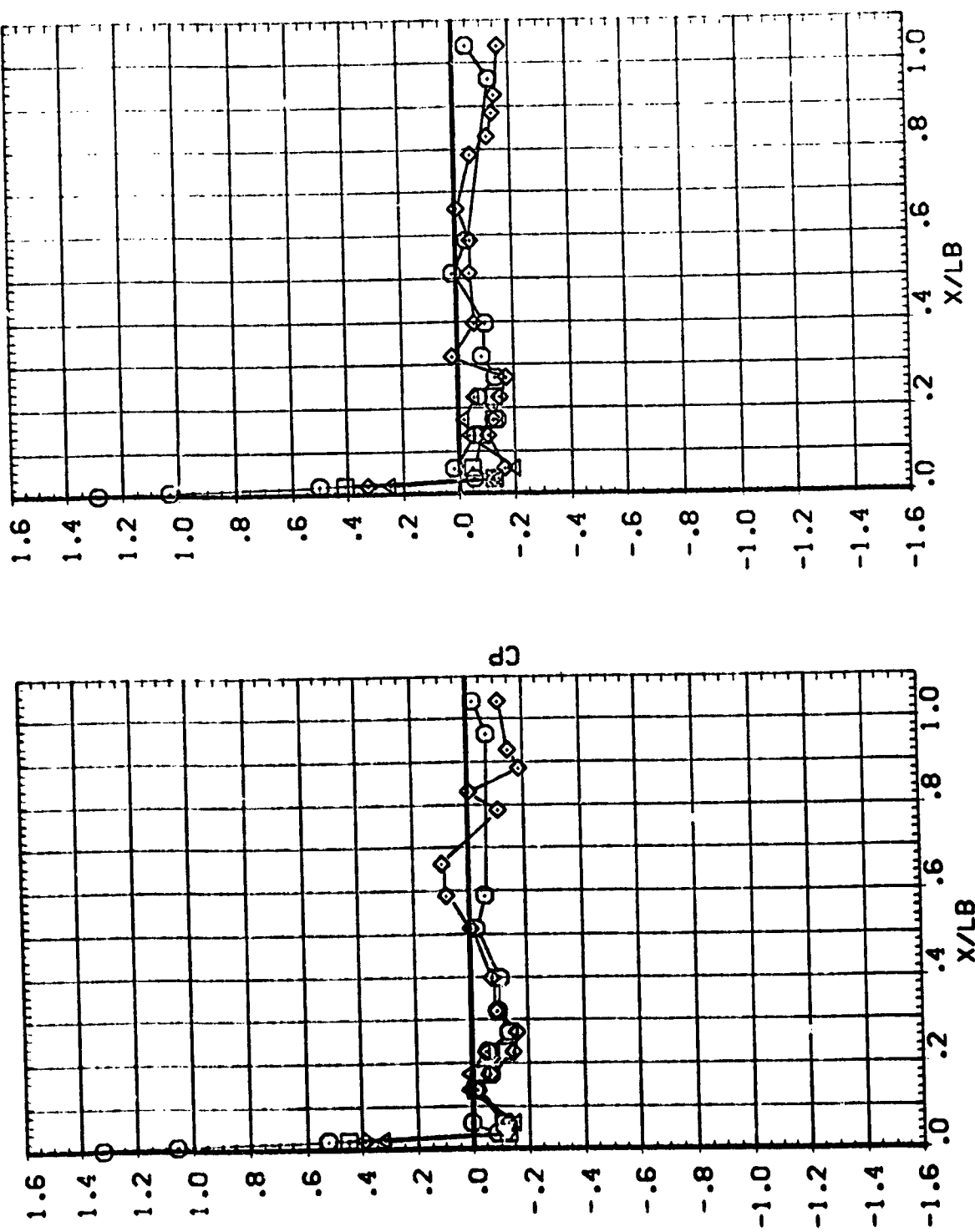
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

PHI:	BETA:	MACH	ALPHA:	ORBITAL	PARAMETRIC VALUES
150.000	-5.070	1.555	4.000	0.000	.500
165.000	5.350		.000	ELEV	.000
180.000			.000	ROLL	



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

RUDDER	RUDDER
RUDDER	RUDDER



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

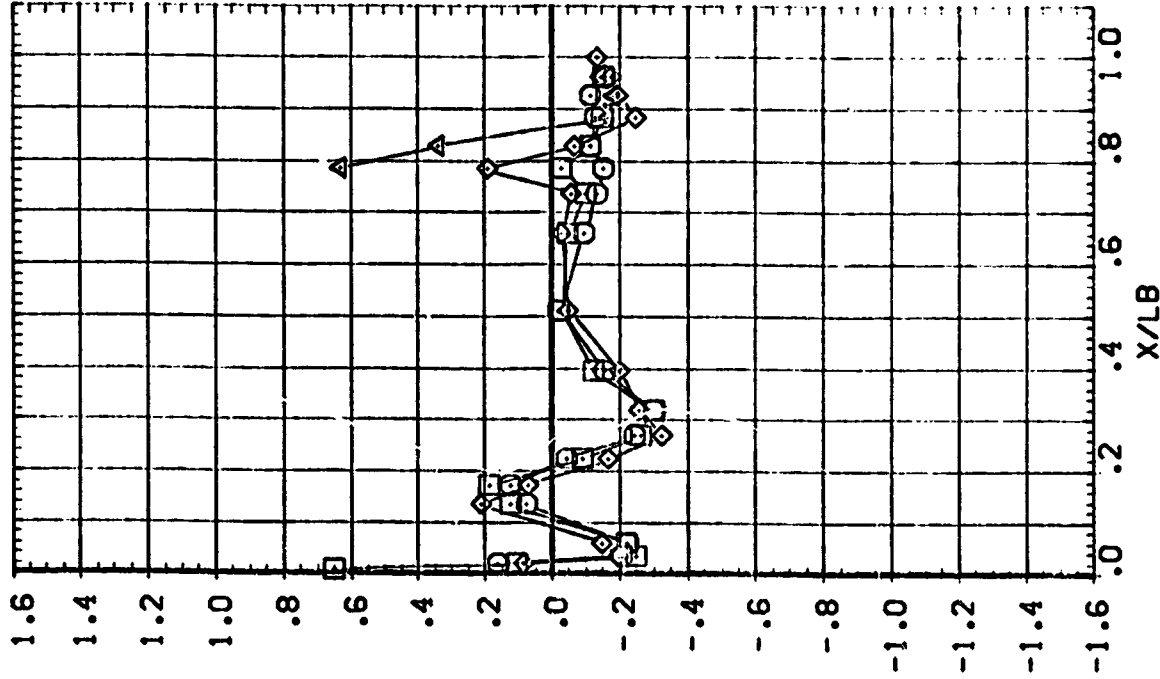
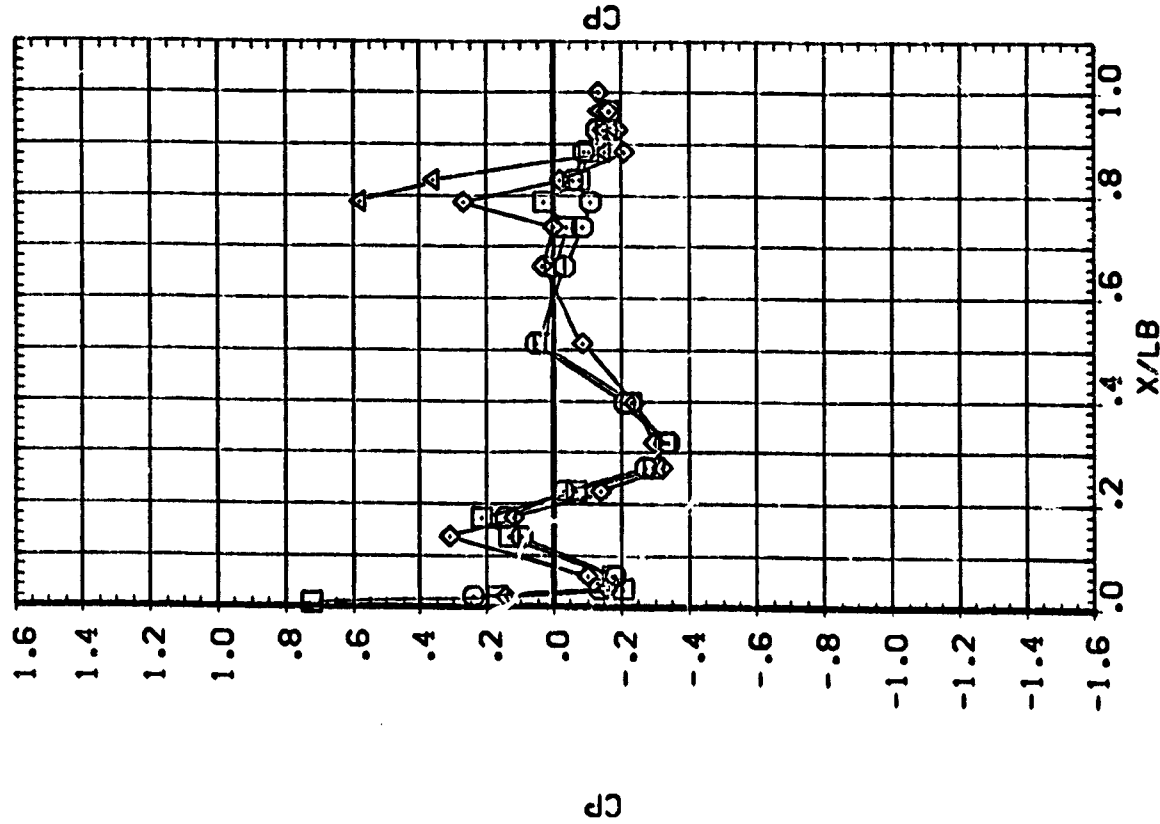
SYN-SC
O
□
◇
△

PHI
70.000
90.000
120.000
135.000

BETAT
7.080
9.100

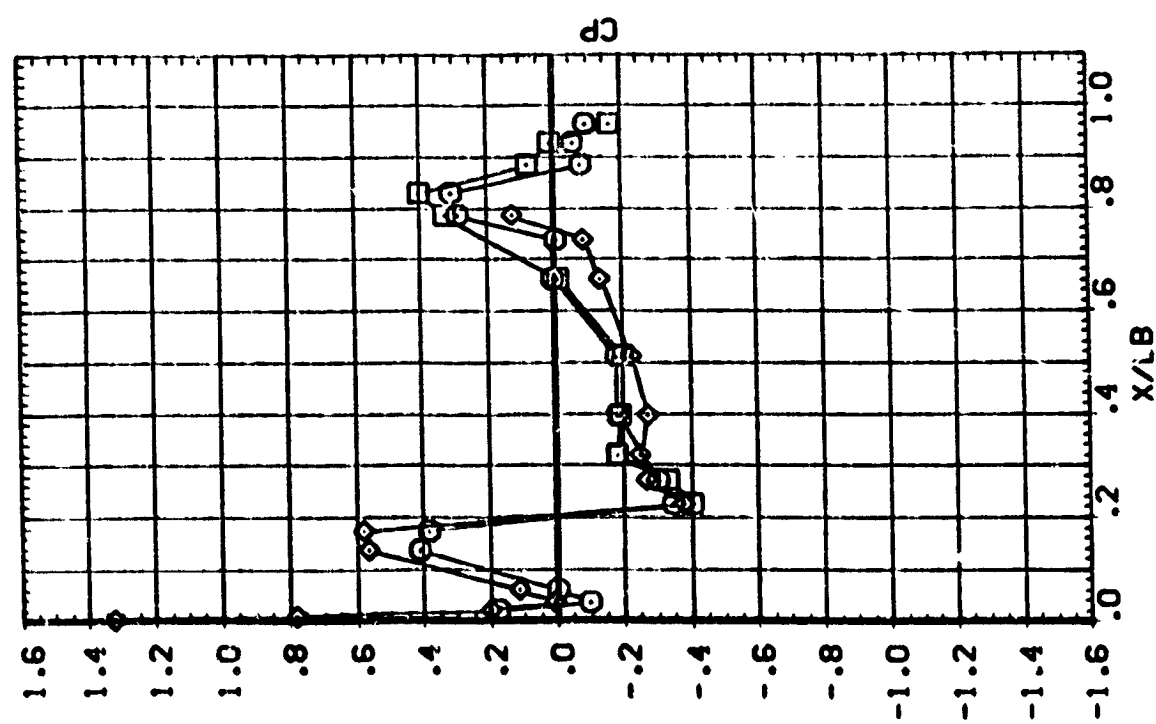
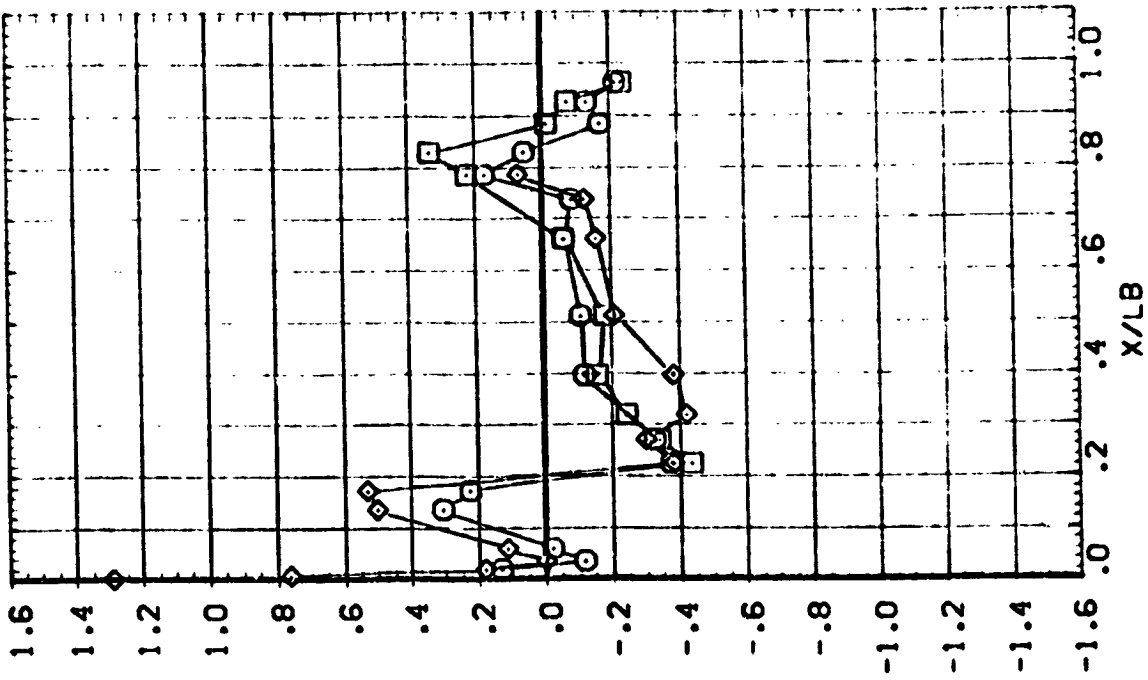
MACH
1.555

PARAMETRIC VALUES
ALPHAT 4.000 CRBINC .500
RJDDER .000 ELEVCN .000
RJDDLR .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

PARAMETRIC VALUES
 ALPHA 4.000 ORBITING .500
 POWER .000 ELEVEN .000
 RADIUS

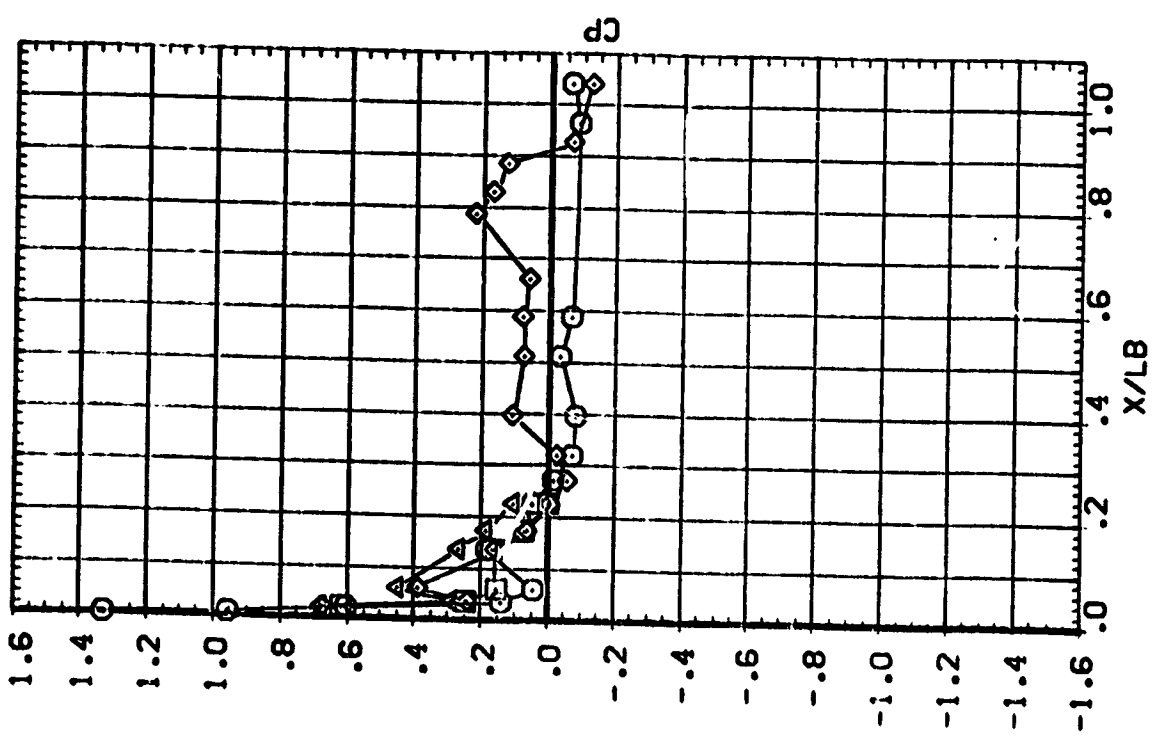
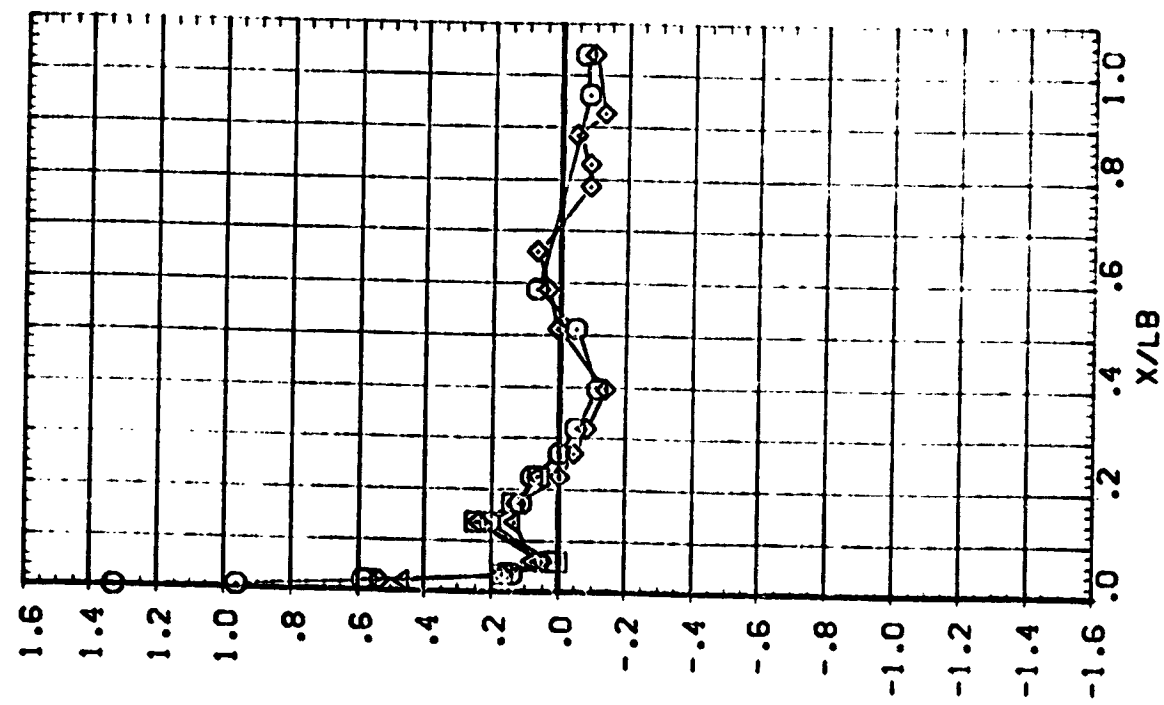


Symbol PH1 BETAT MACH
 150.000 7.080 1.555
 165.000 5.100
 180.000

LONGITUDINAL DISTRIBUTION OF ORBITER FUSelage PRESSURES

ORBITER FUSELAGE (1930804)

PARAMETRIC VALUES
 ALDUT 4.000 ORBINC .500
 RUDDER .000 ELEVON .000



SYMBOL PH1 BETAT MACH
 O .000 -6.240 2.000
 □ 20.000 3.950
 ◇ 40.000
 △ 55.000

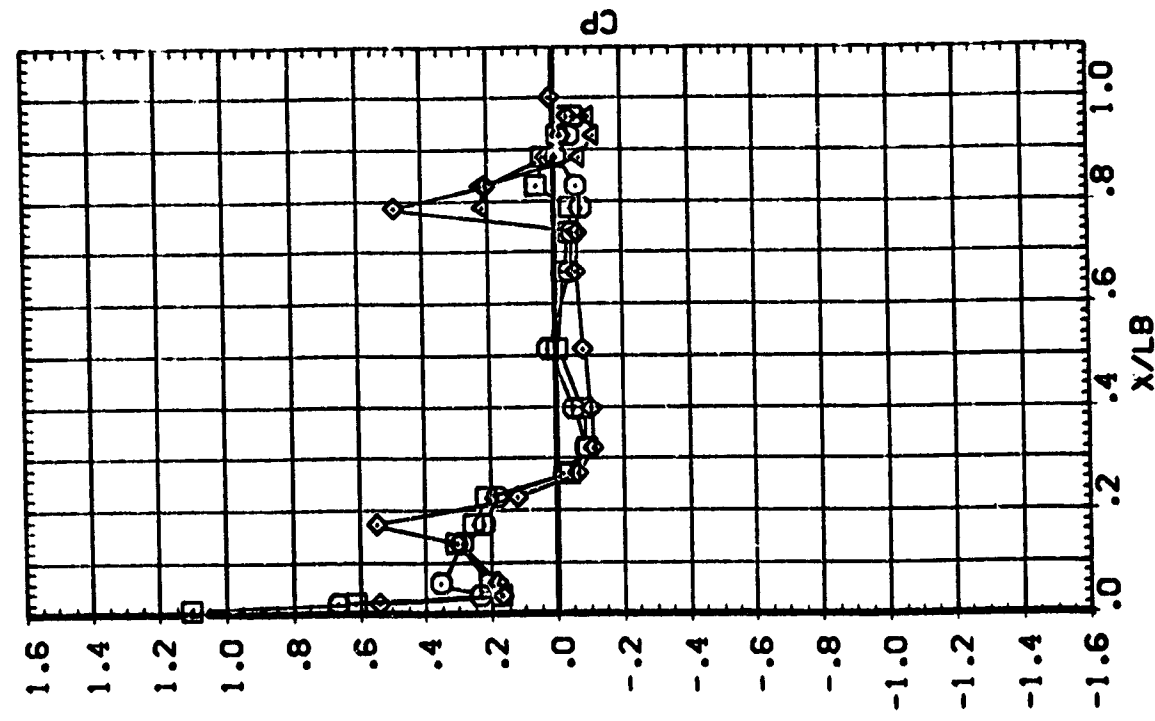
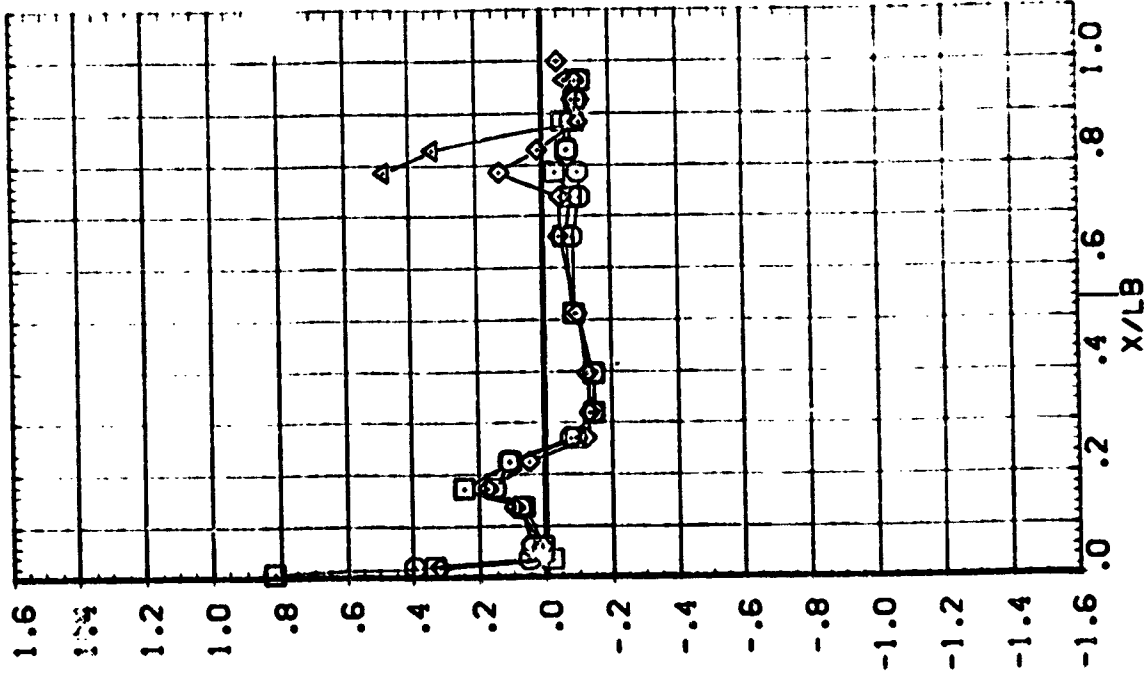
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

ALBANY
 R00000
 R00000
 R00000

70.000
 90.000
 120.000
 135.000

2.000
 -6.240
 3.950

0.000
 0.000
 0.000

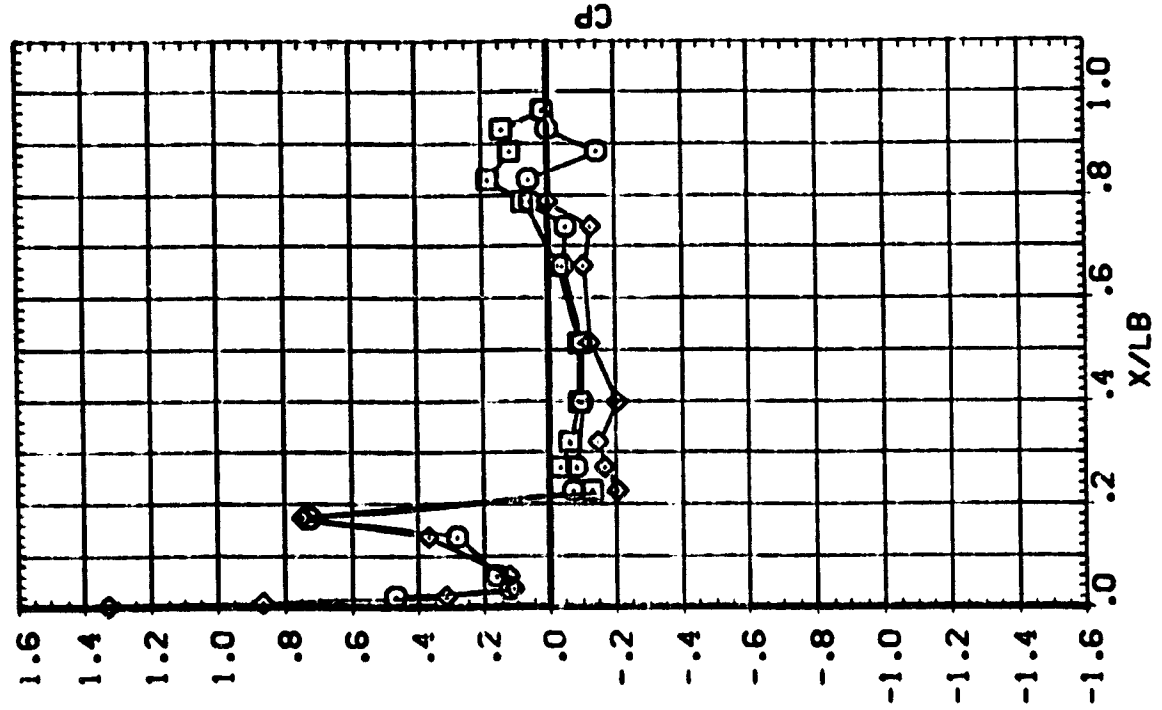
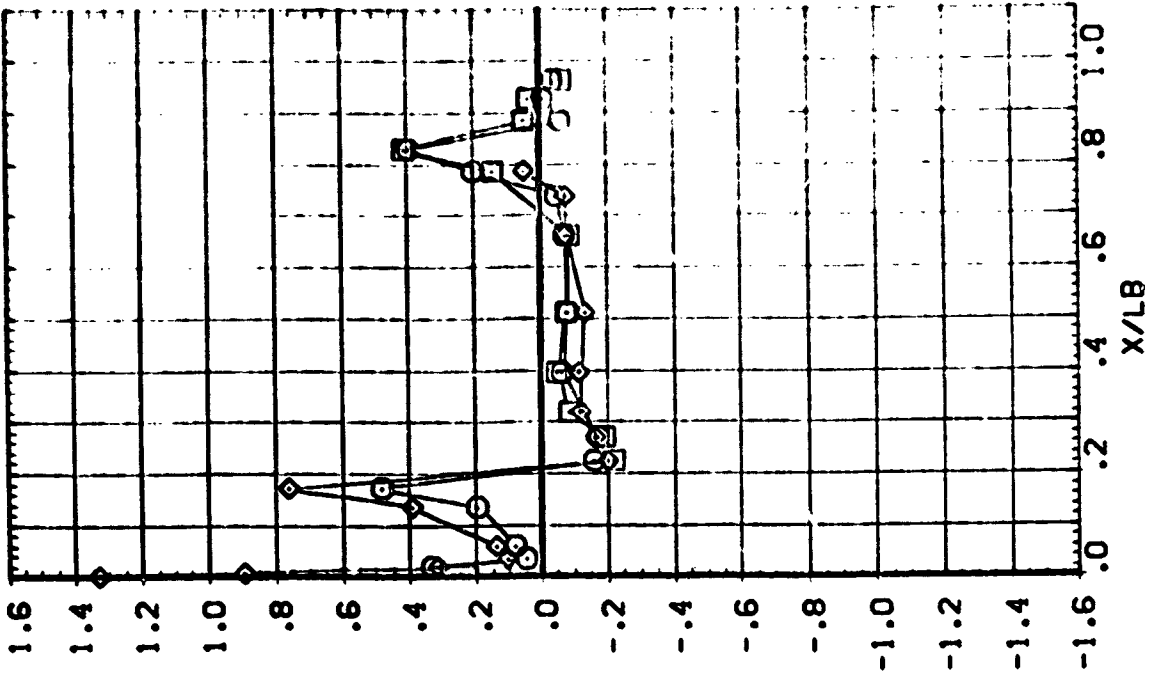


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBC304)

PARAMETER VALUES
 ALPHAT 4.000 DEG
 RUDER 0.000
 RUDLR 0.000

SYMBOL
 PH1 150.000
 BETAT -6.240
 MACH 2.000
 165.000
 180.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

□ ◇ △

0.000
20.000
40.000
55.000

5.950
8.000

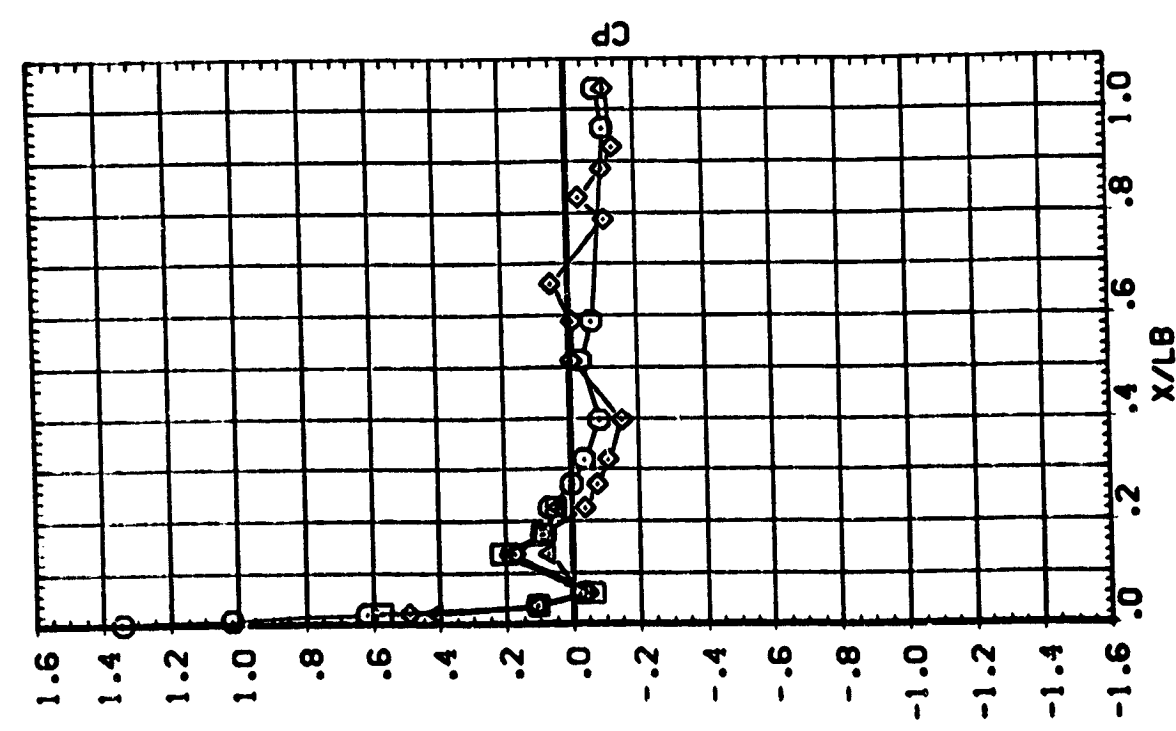
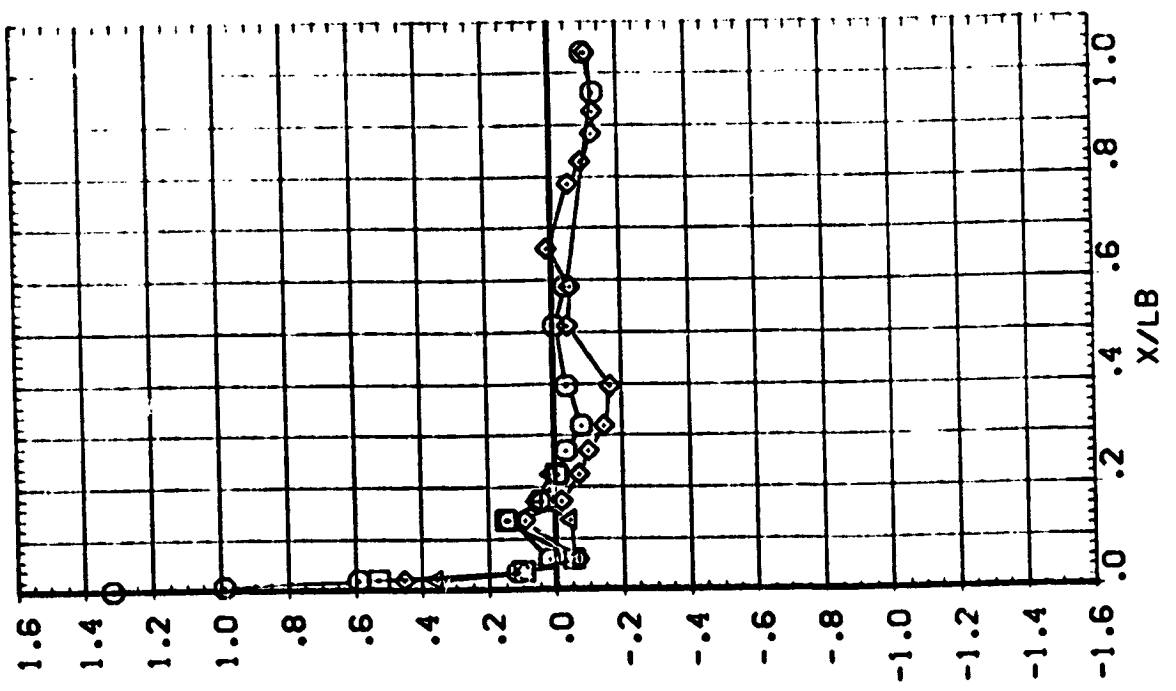
7.000

RUDGER
RUDFLR

.000
.000

ELEV

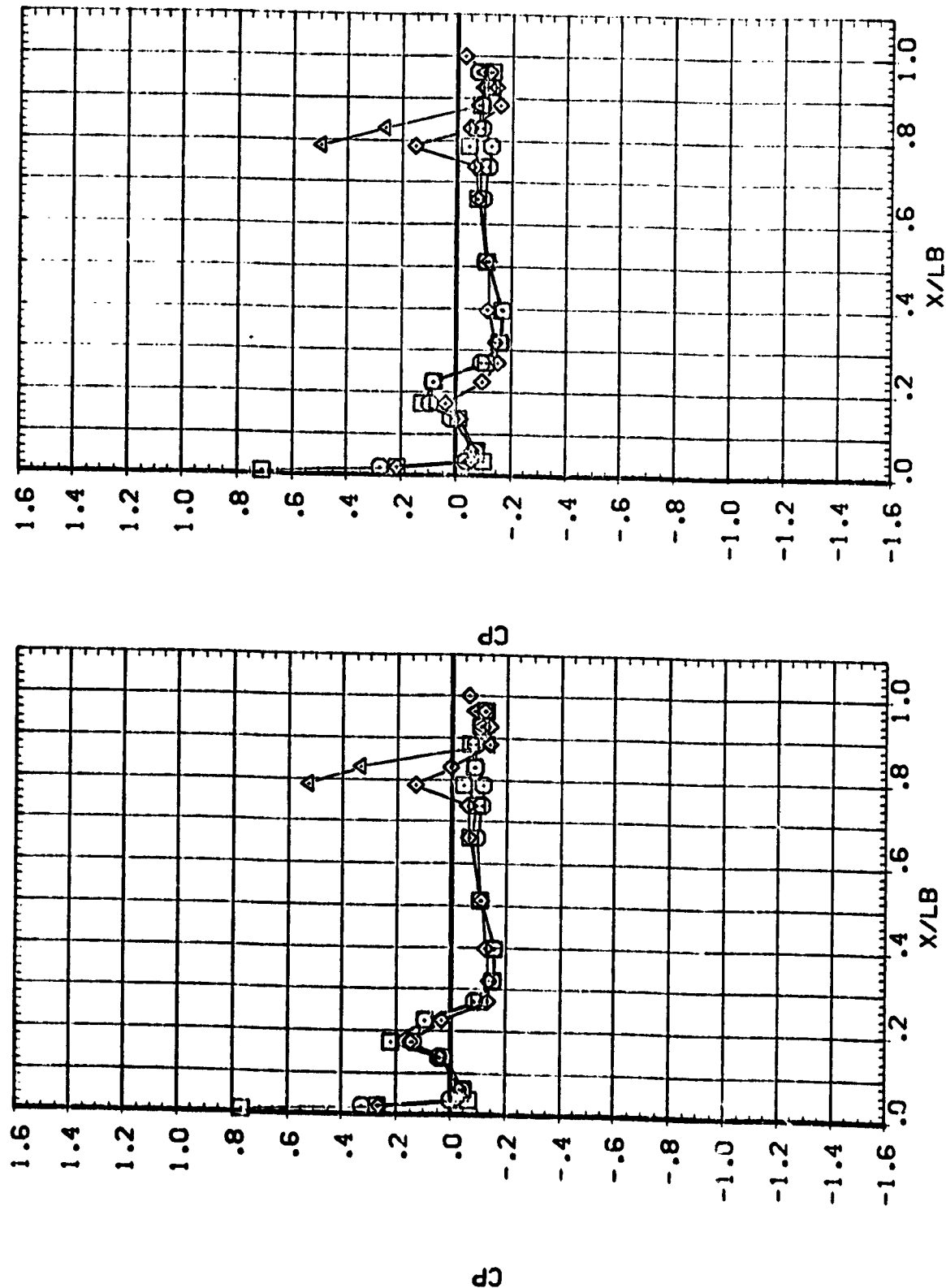
11



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 1A9 32A + 33 + T9 ORBITER FUSELAGE (R9C3C4)

SYMBOL	PH	BETAT	MACH	ALPHA	PARAMETRIC VALUES
()	70.000	5.990	2.000	RUDDER	4.000 CRBINC
○	90.000	8.030		RUDDER	.000 ELEVON
△	120.000			RUDDER	.000
	135.000				



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RB0804)

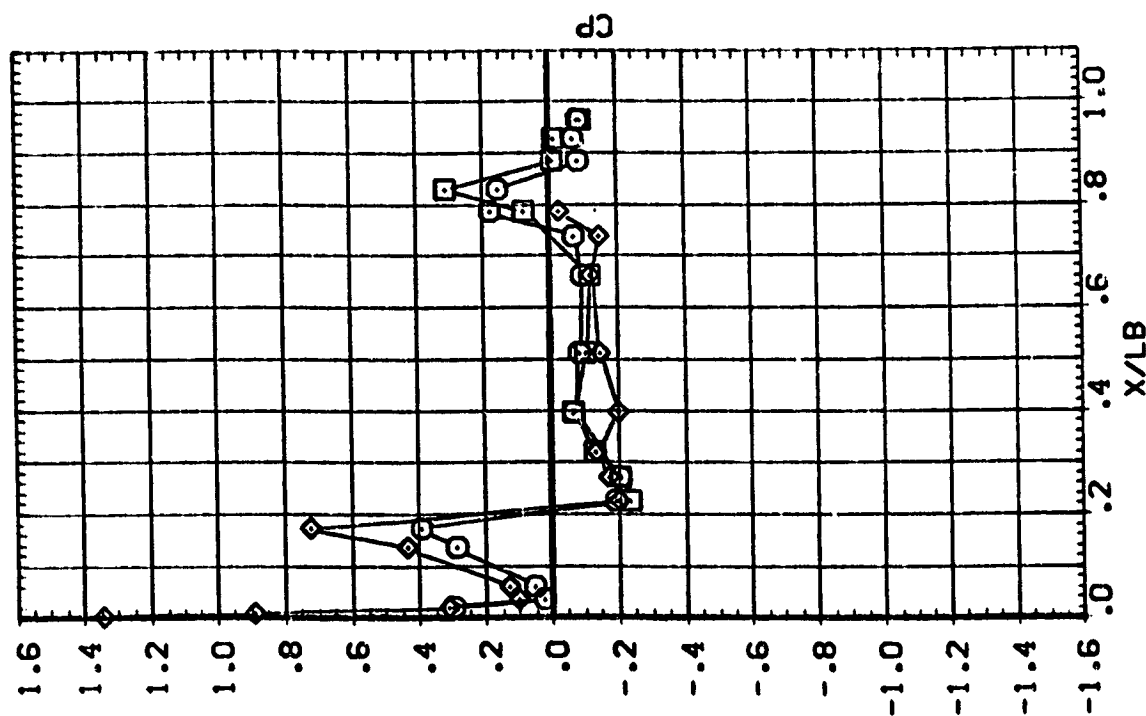
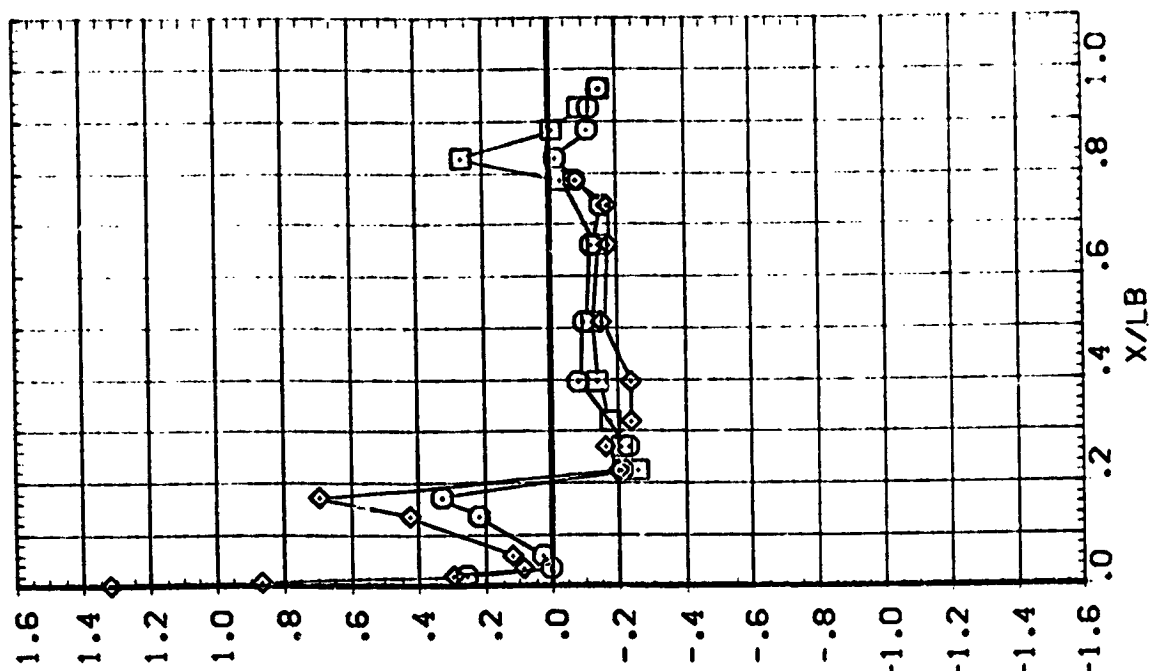
SYMBOL
 ○ □ ◇

PHI
 150.000
 165.000
 180.000

BETAT
 5.990
 8.030

MACH
 2.000

PARAMETRIC VALUES
 ALPHAT 4.000
 RUDDER .000
 RUDDER .000
 ELEVON .000
 ELEVON .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 :A9 02A + S3 + T9 ORBITER FUSELAGE (RBC306)

SYMBOL
 ○ □ ◇ △

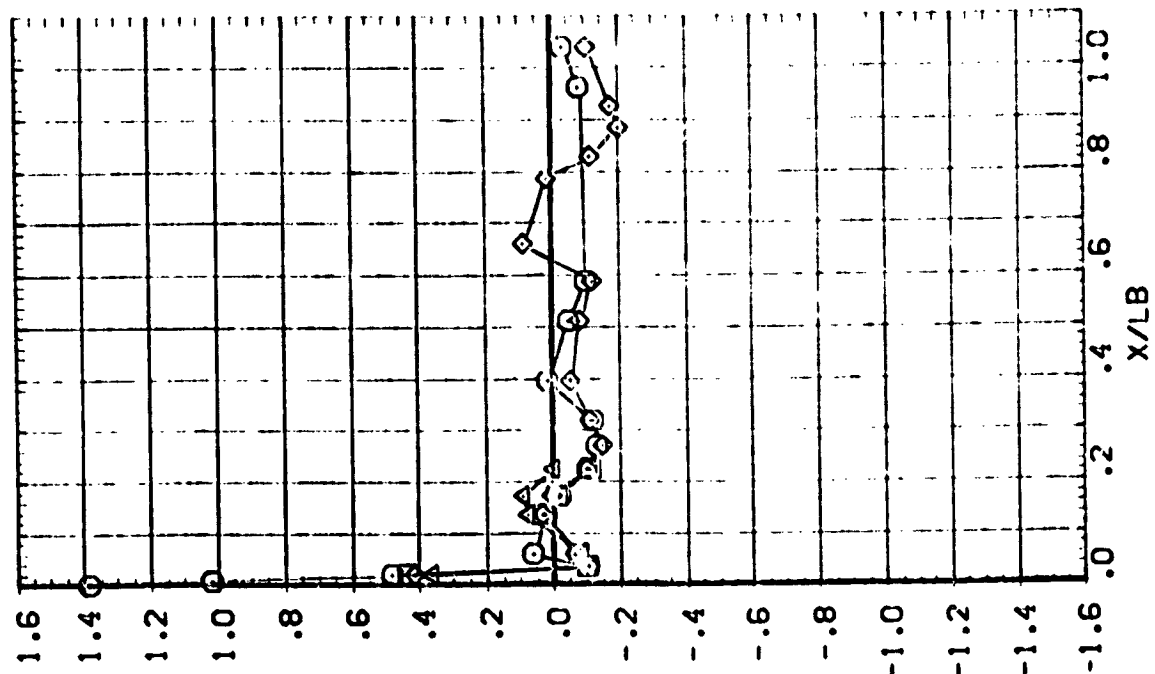
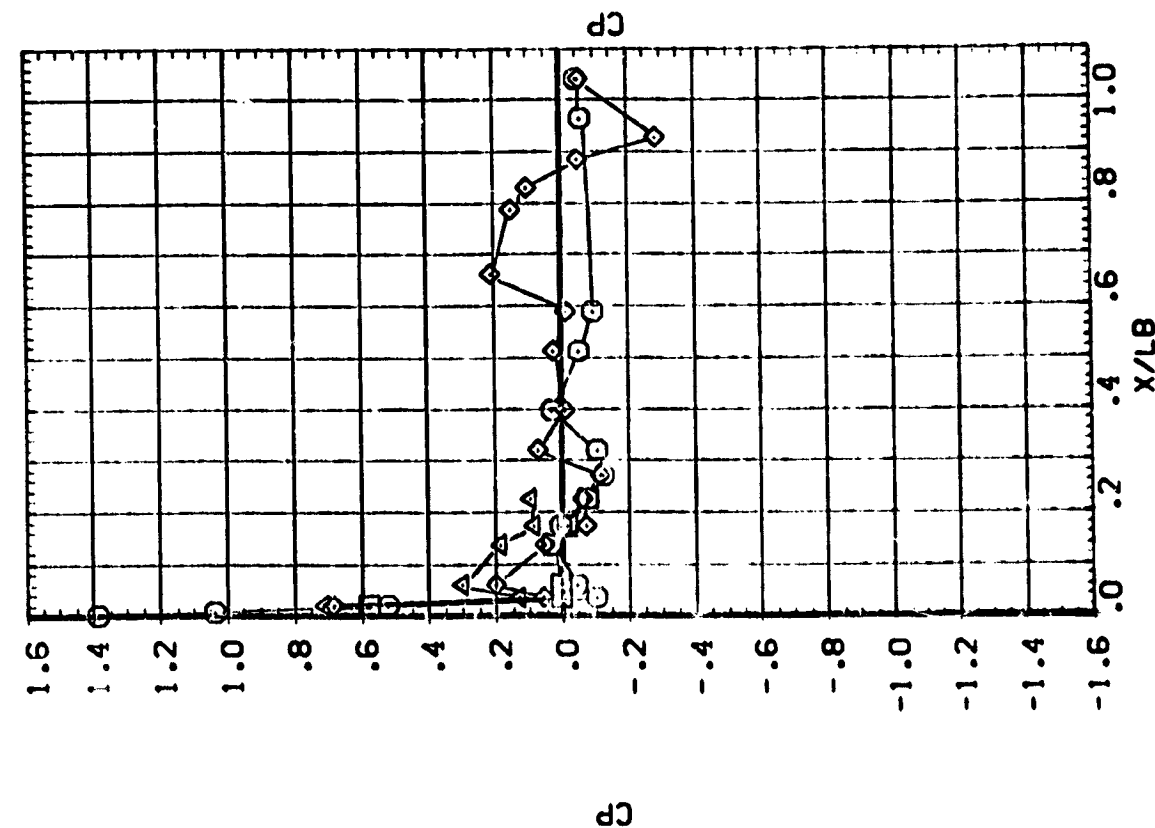
PHI .000
 20.000
 40.000
 55.000

BETAT -5.090
 5.050

MACH 1.555

PARAMETRIC VALUES
 ALPHA1 .000
 RUDER .000
 RUDELR .000

.500
 .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 97-707 (A9 C2A - S3 + 19 CRBITER FUSELAGE (R8C306)

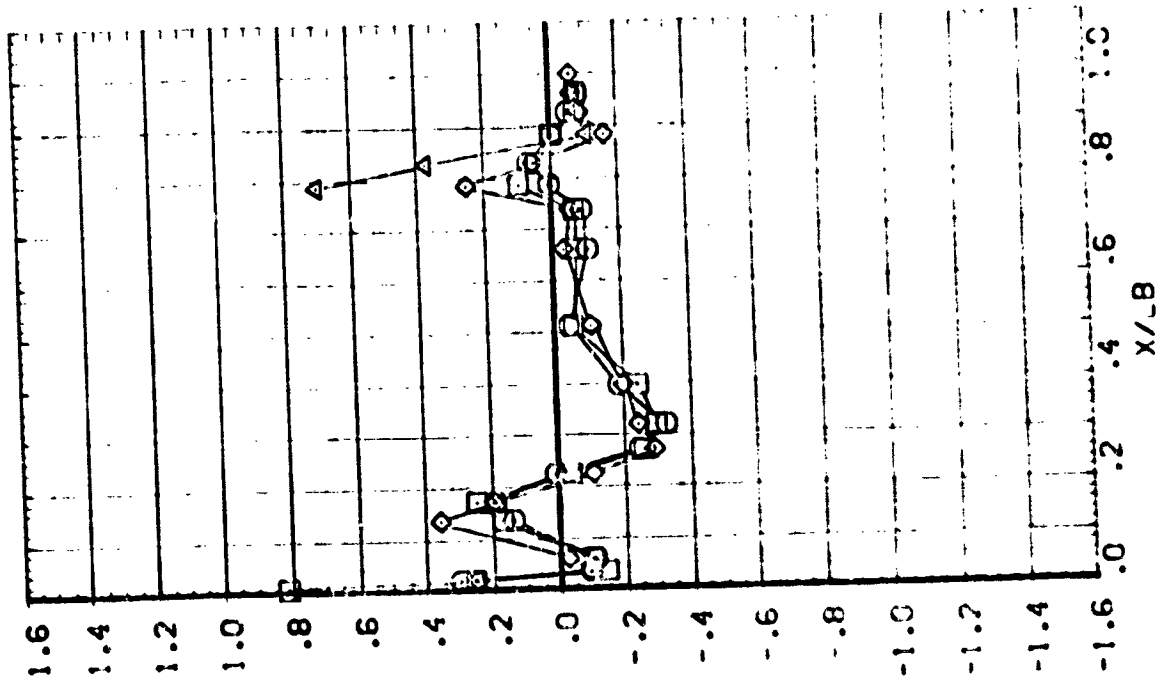
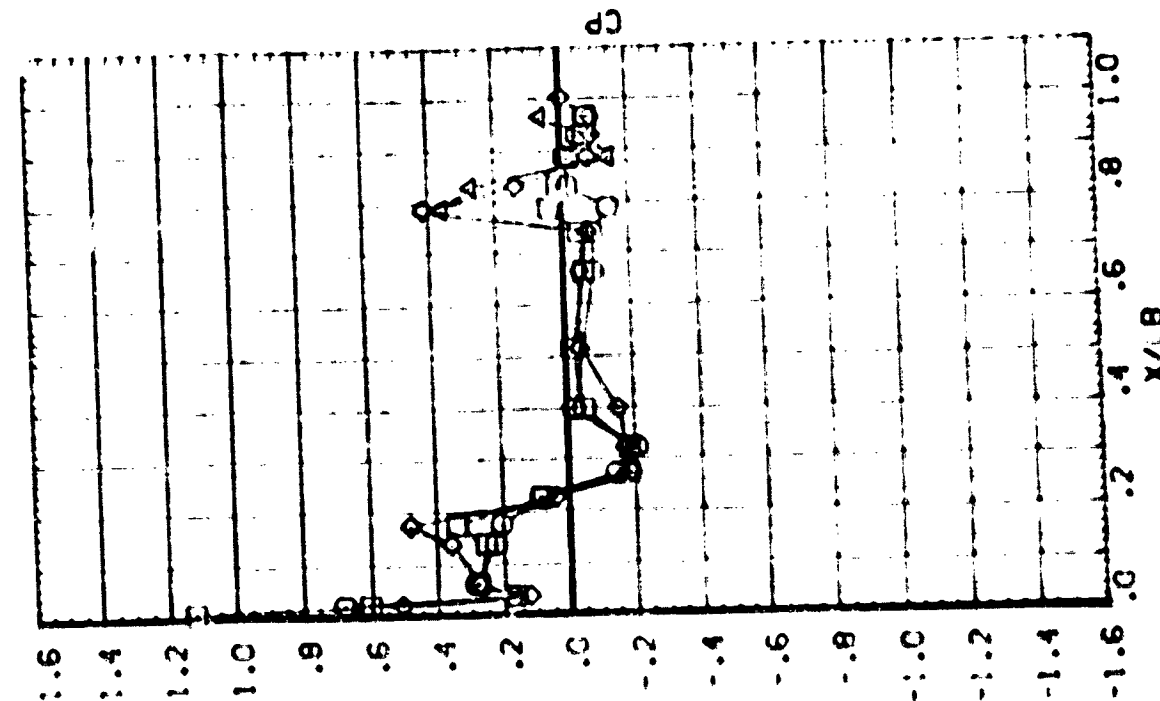
5000

701000
901000
101000
111000

BETA' MAG-
5.380 1.555
5.750

PARAMETRIC VALUES
ALPHA' .000
RUBBER .000
RUBBER .000
ELEV .000

.500
.000



LONGITUDINAL DISTRIBUTION OF CRBITER FUSELAGE PRESSURES

0.00

0.00

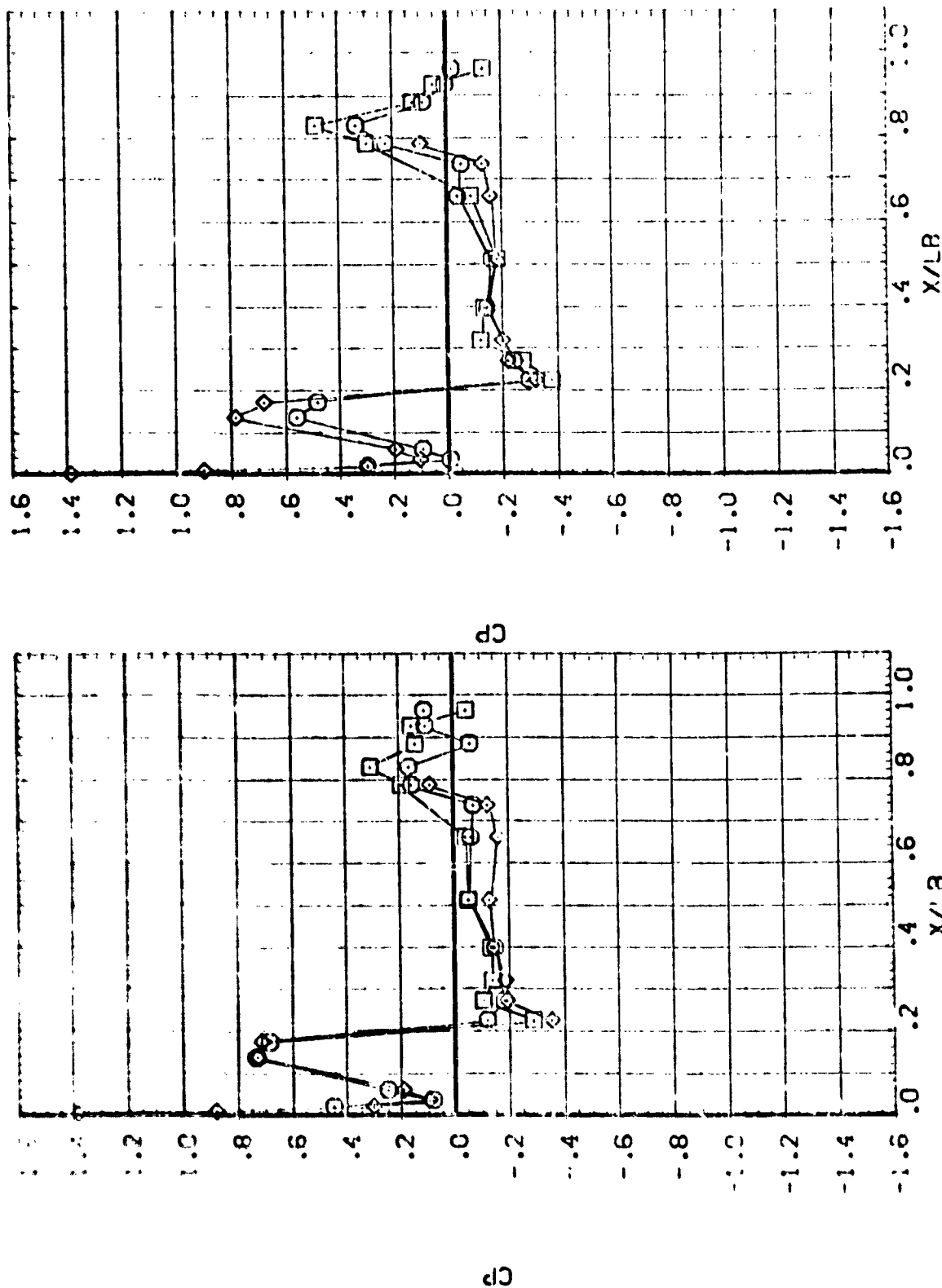
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES (980306)

ADAMTIC VALUES

ALPHA
0.0000
0.0000
0.0000

0.0000
0.0000
0.0000

0.0000
0.0000
0.0000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 IAS 02A + S3 + T9 ORBITER FUSELAGE (RB0806)

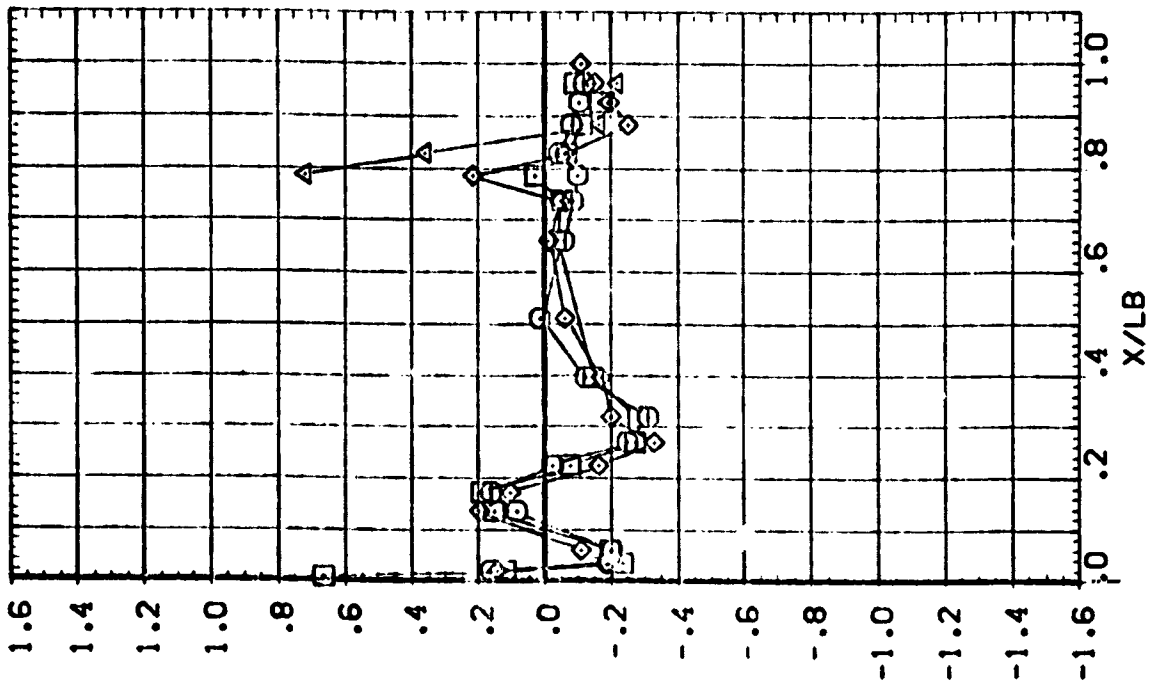
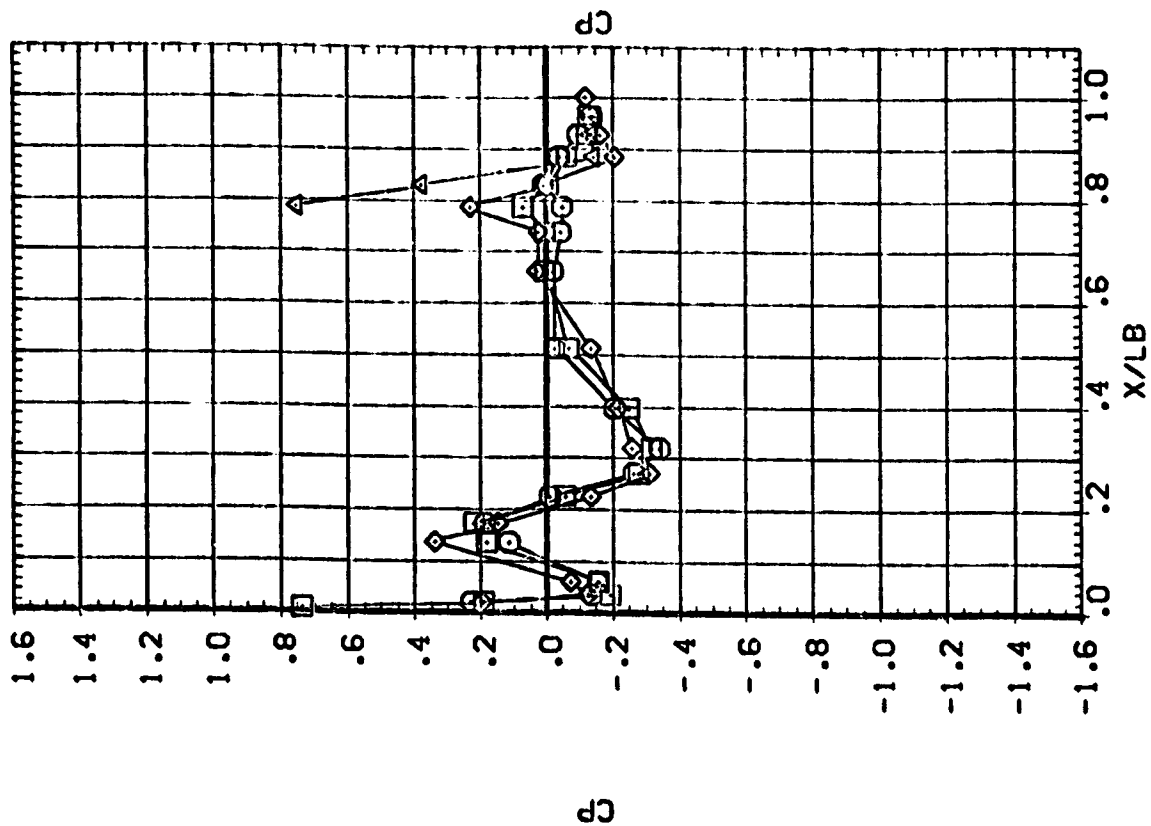
SYMBOL
 ○
 □
 △

PHI
 70.000
 90.000
 120.000
 135.000

BETA
 7.060
 9.090

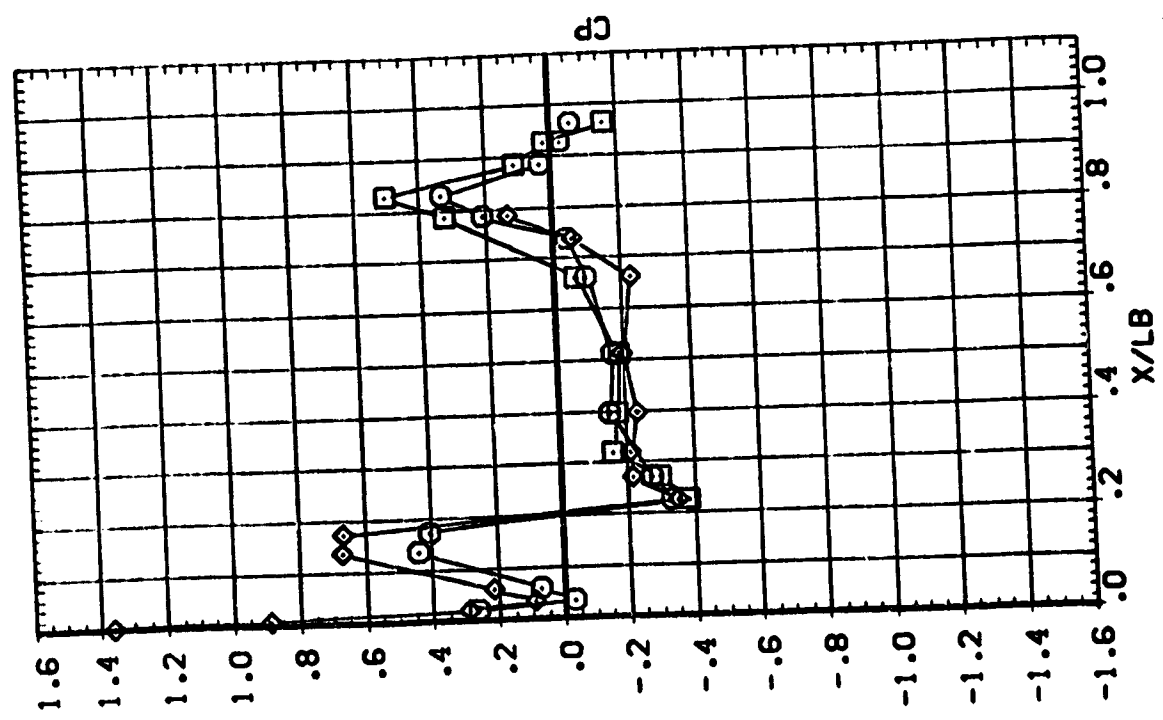
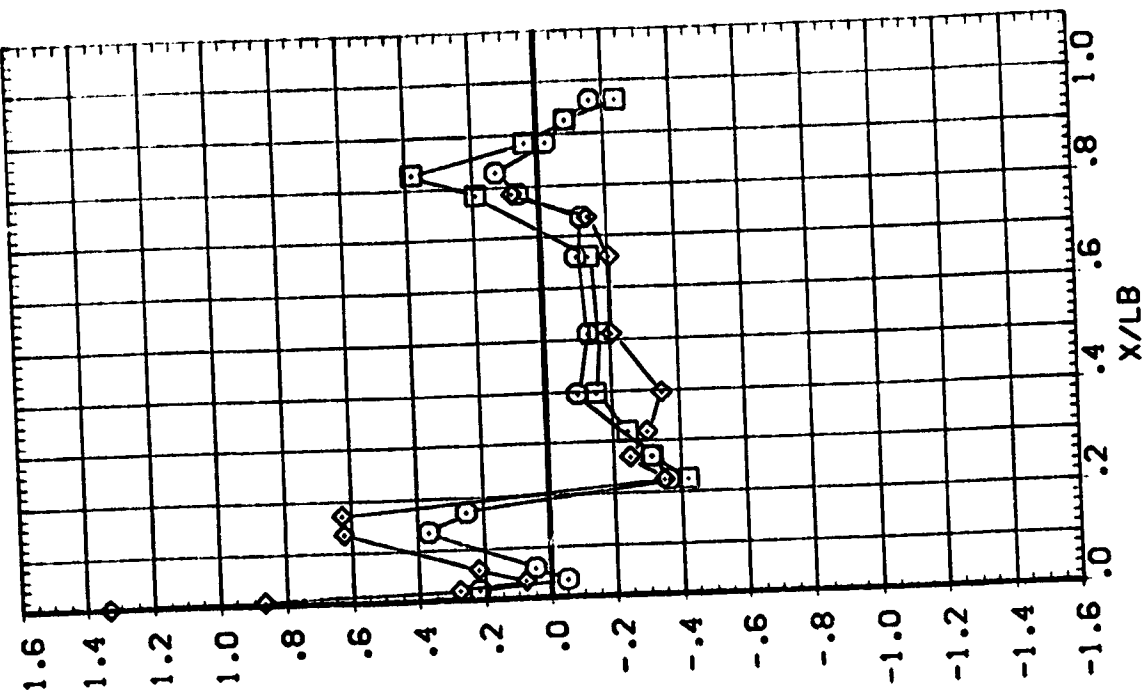
MACH
 1.555

PARAMETRIC VALUES
 ALPHA1 .000 ORBINC .500
 RUDDER .000 ELEVON .000
 RUDELR .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

ALPHAT
 RUDDER
 RUOFLR
 .000
 .000
 .000
 ORBITING
 ELEVON
 .000
 .000



SYMBOL
 150.000
 165.000
 180.000
 BETAT
 7.060
 9.090
 MACH
 1.555

LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RB0B06)

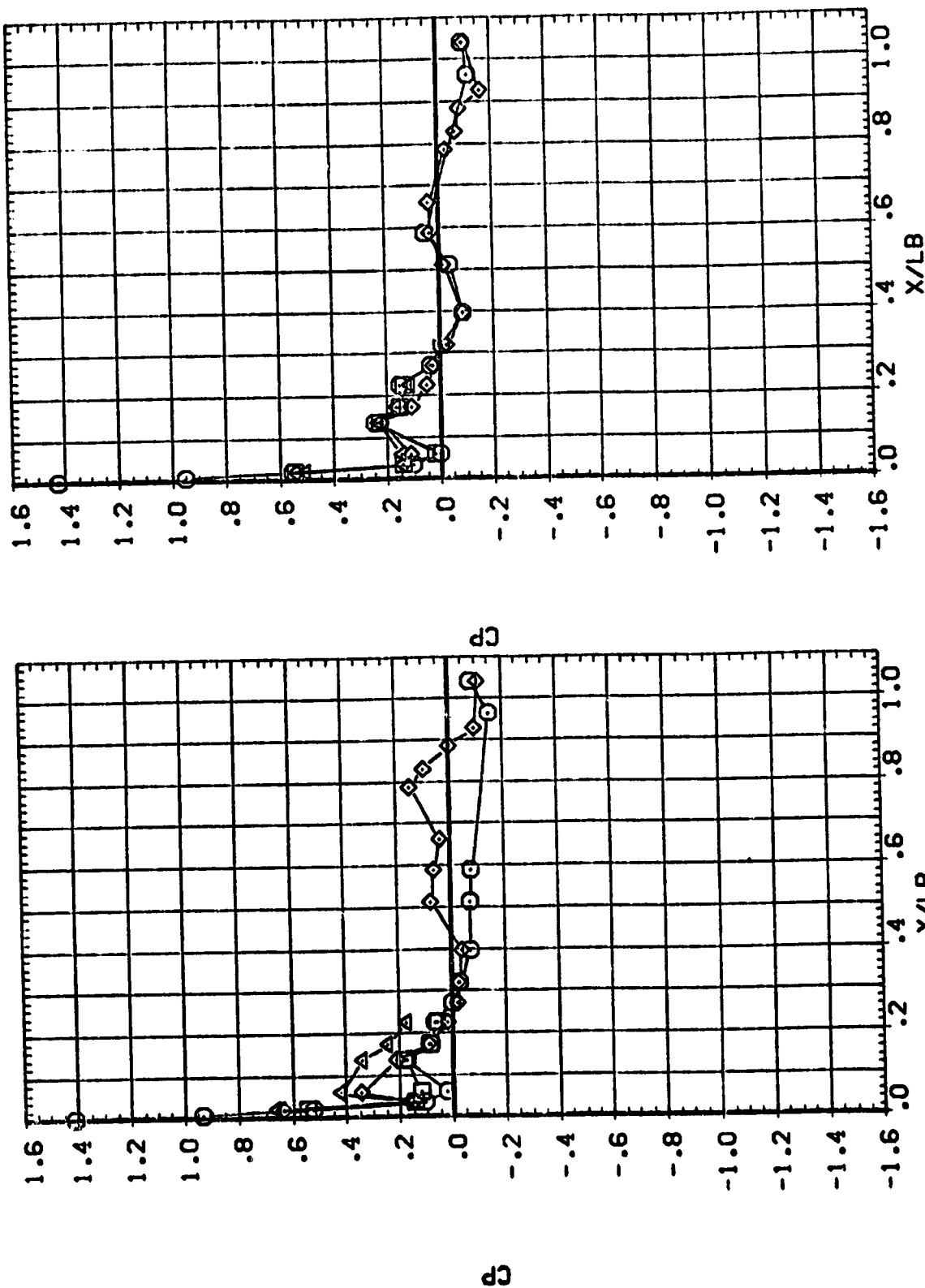
SYMBOL
 ○ □ ◇ △

PHI .000
 20.000
 40.000
 55.000

BETAT -6.250
 -1.130

MACH 2.000

PARAMETRIC VALUES
 ALPHAT .000 CRBINC .500
 RUDDER .000 ELEVON .000
 RUDDLR .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

RESULTS OF 101 (10) DEH 00

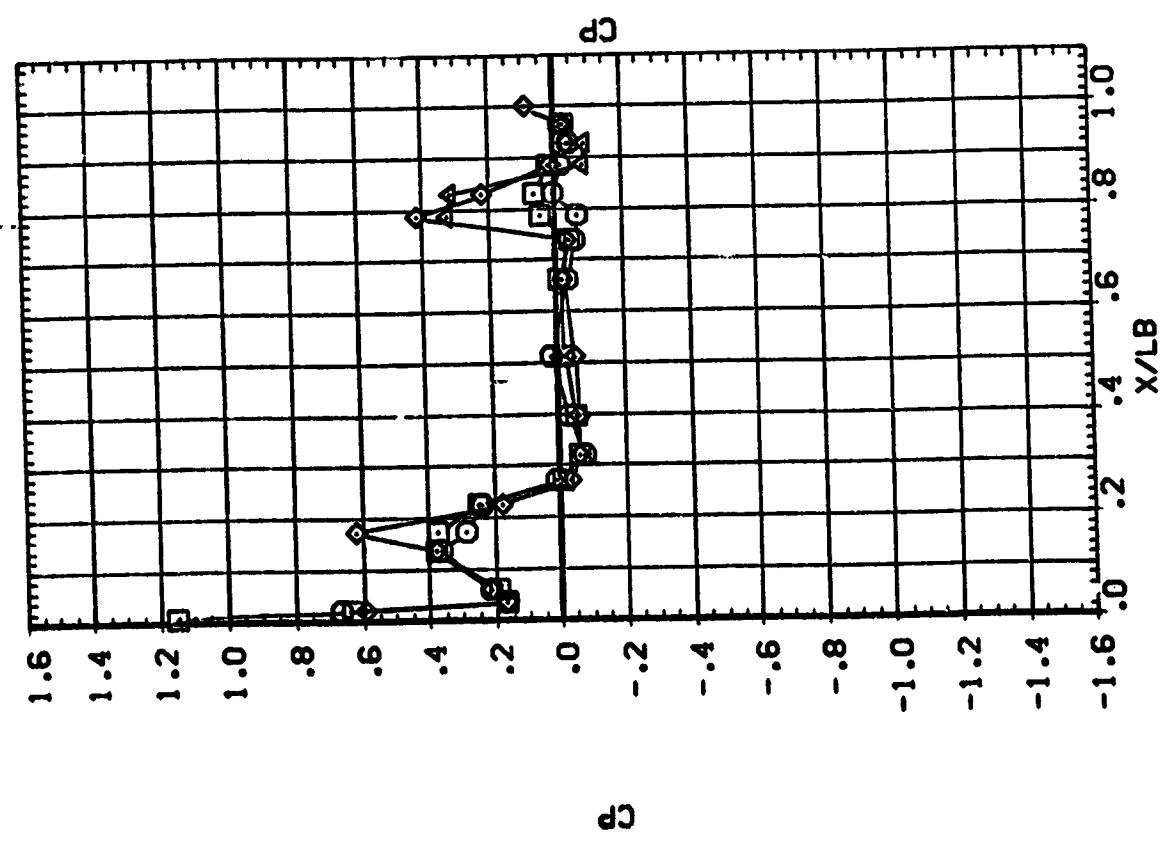
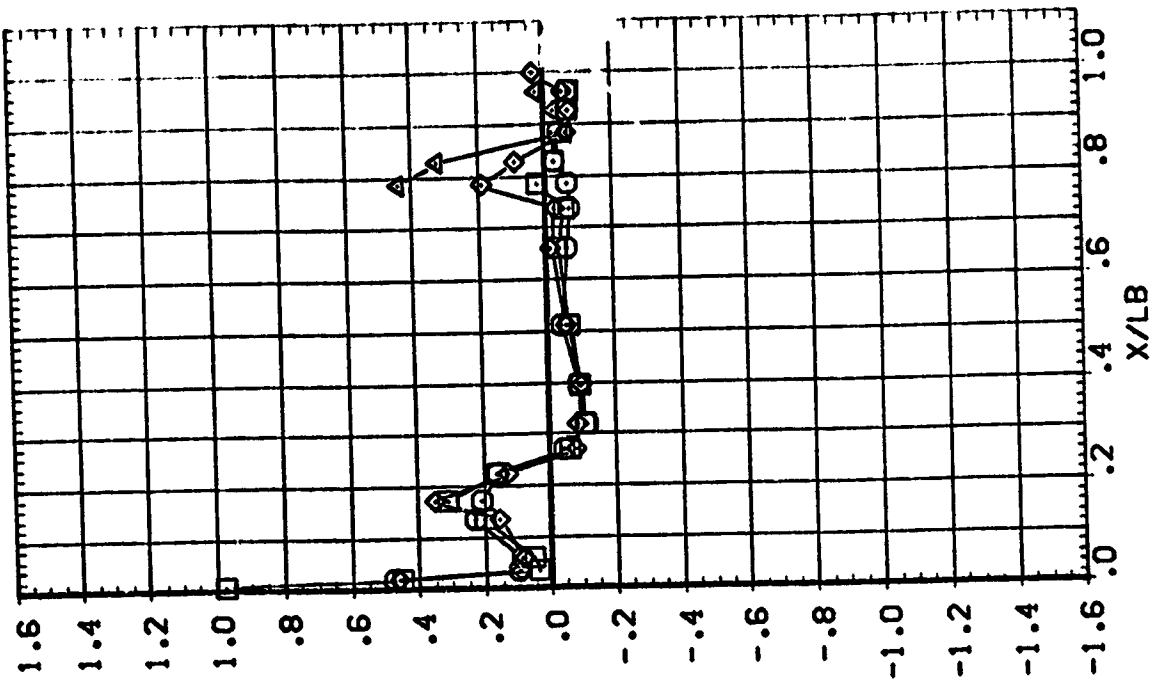
SYMBOL
 70.000
 90.000
 120.000
 135.000

PHI
 70.000
 90.000
 120.000
 135.000

BETAT
 -6.250
 -.130

MACH
 2.000

PARAMETRIC VALUES
 ALPHAT
 RUDDER
 RUDDFLR
 .000
 .000
 .000
 .500
 .000
 .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RB0B06)

SYMBOL PHI BETAT MACH

○ 150.000 -6.250 2.000

□ 165.000 -7.130 2.000

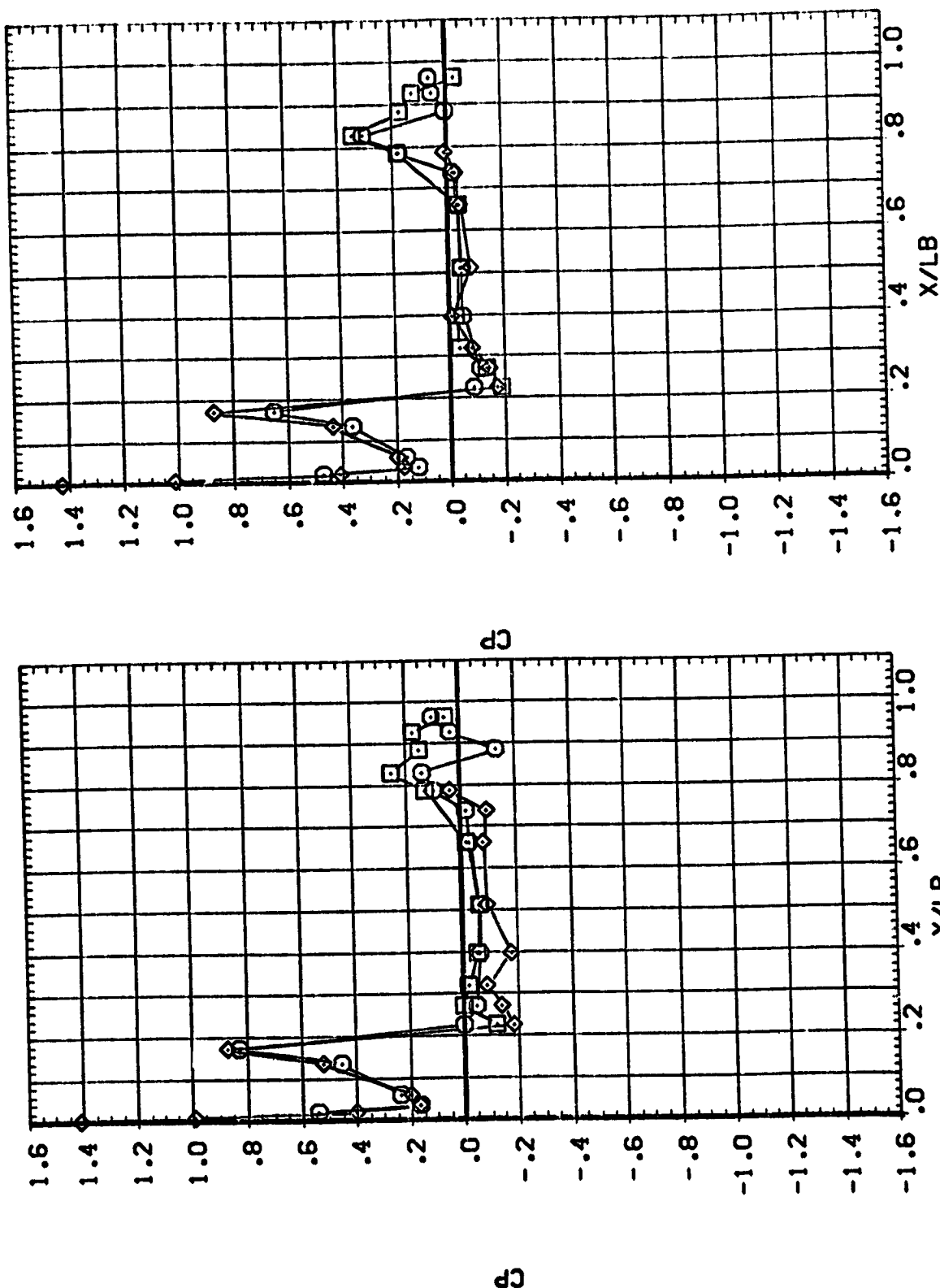
◇ 180.000 -7.130 2.000

PARAMETRIC VALUES

ALPHAT .000 ORBINC .500

RUDDER .000 ELEVON .000

RUDFLR .000 .000 .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

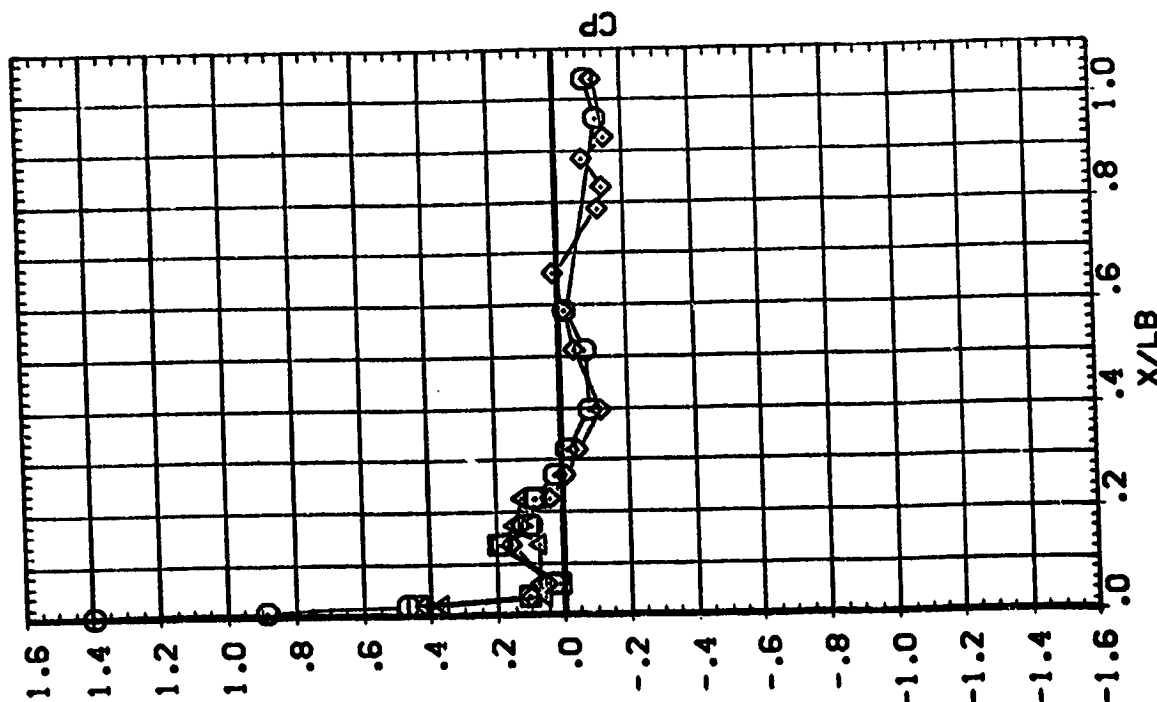
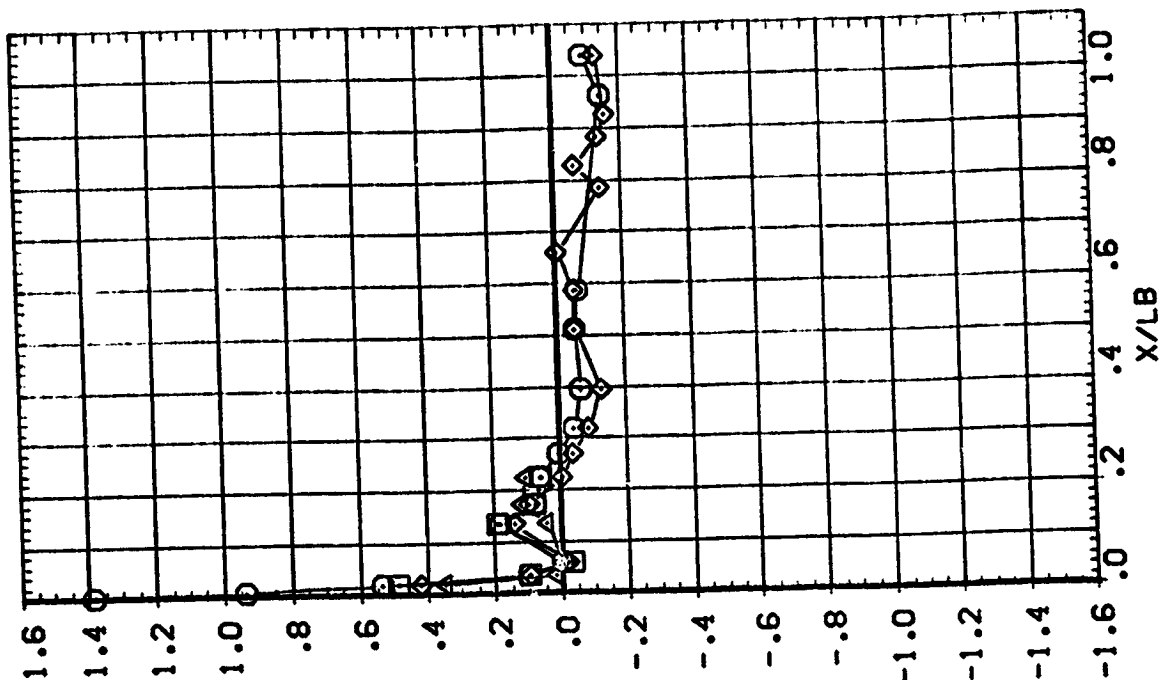
SYMBOL
 ○
 □
 ◇
 △

PHI
 .000
 20.000
 40.000
 55.000

BETAT
 3.950
 5.980

MACH
 2.000

PARAMETRIC VALUES
 ALPHAT .000 ORBITINC .500
 RUDDER .000 ELEVON .000
 RUFLR .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 1A9 C2A + S3 + T9 ORBITER FUSELAGE (RB0806)

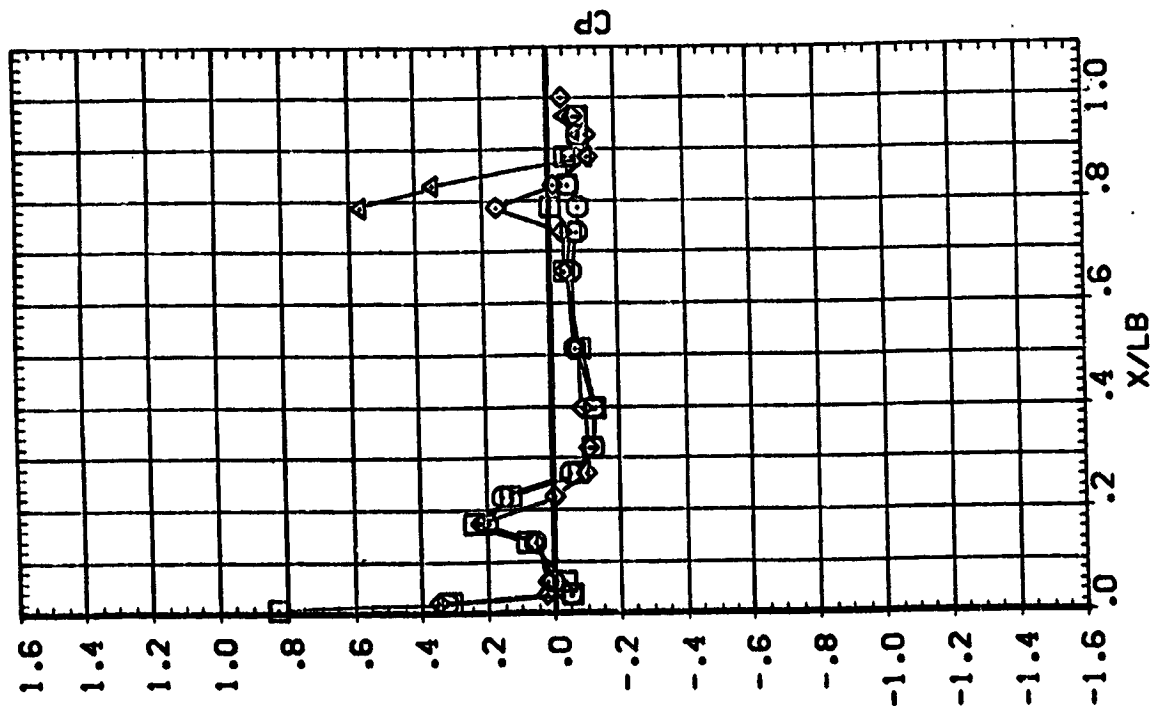
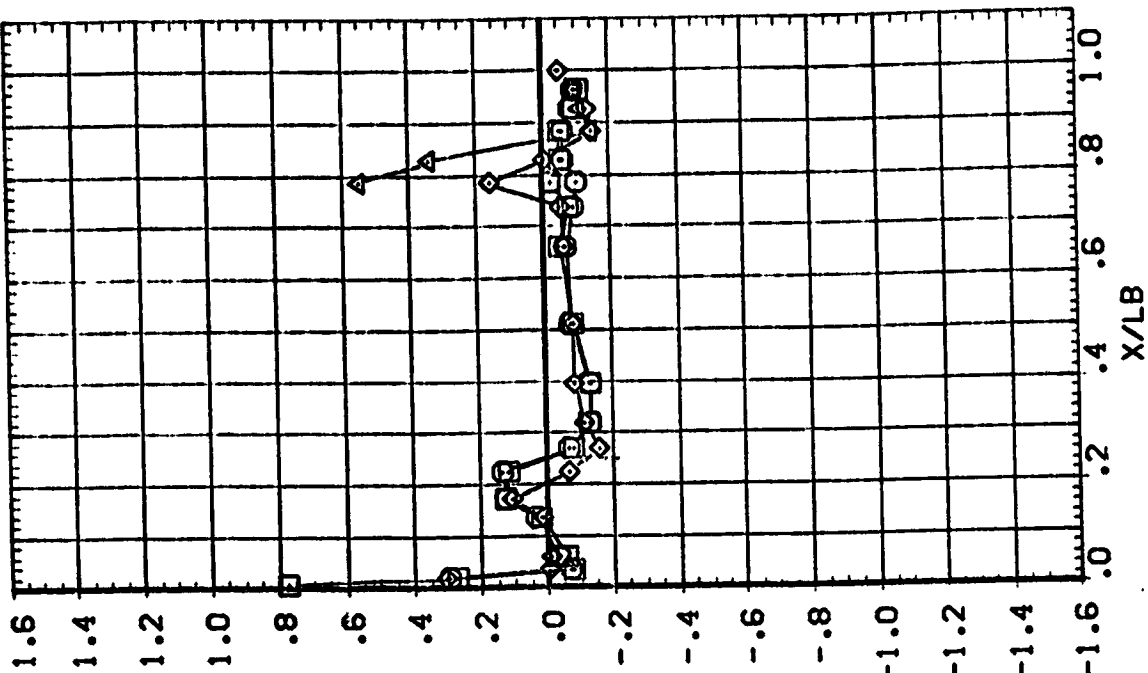
SYMBOL
 ○
 □
 ◇
 △

PHI
 70.000
 90.000
 120.000
 135.000

BETAT
 3.950
 5.980

MACH
 2.000

PARAMETRIC VALUES
 ALPHAAT .000 ORBINC .500
 RUDDER .000 ELEVON .000
 RUOFLR .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

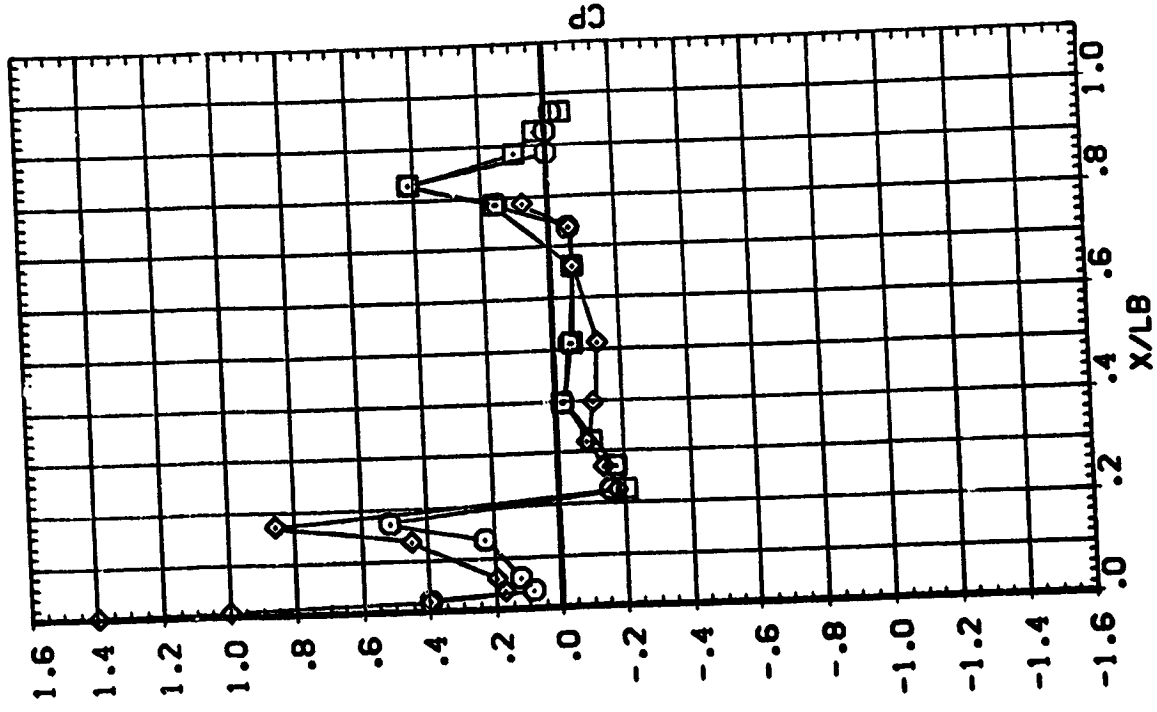
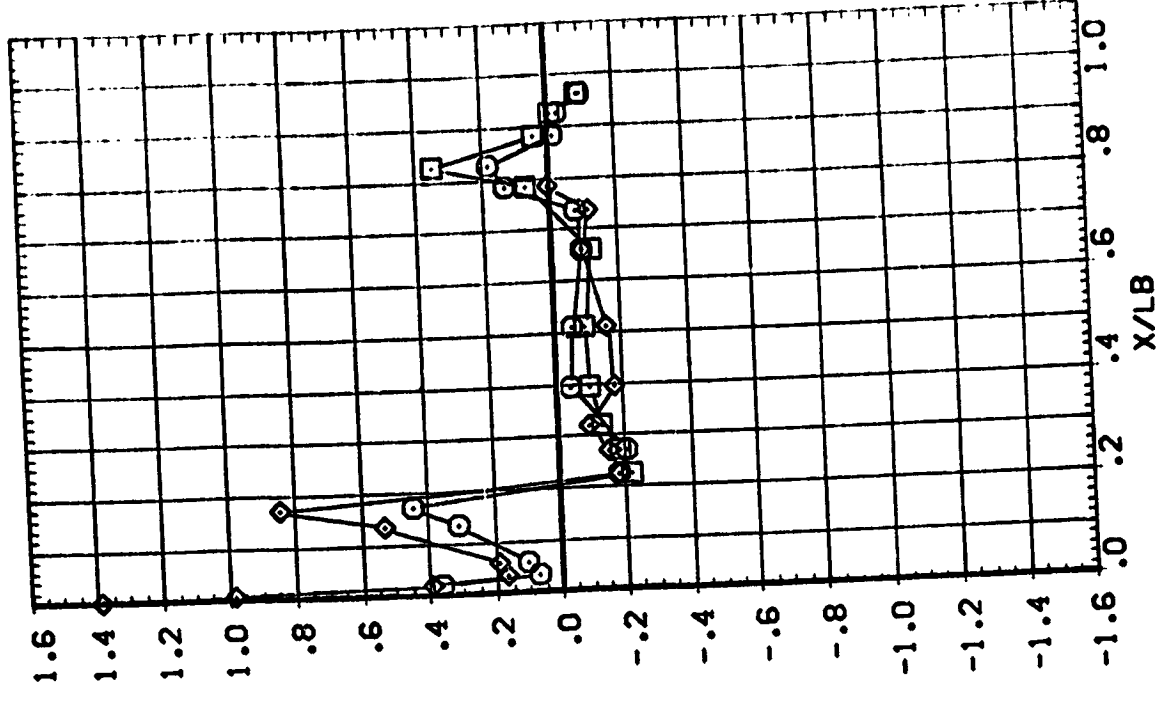
PARAMETRIC VALUES
 .000 ORBITING
 .000 ELEVON
 .000

ALPHAT
 RUDDER
 RUOFLR

PHI
 150.000
 165.000
 180.000

BETAT
 3.950
 5.980

MACH
 2.000



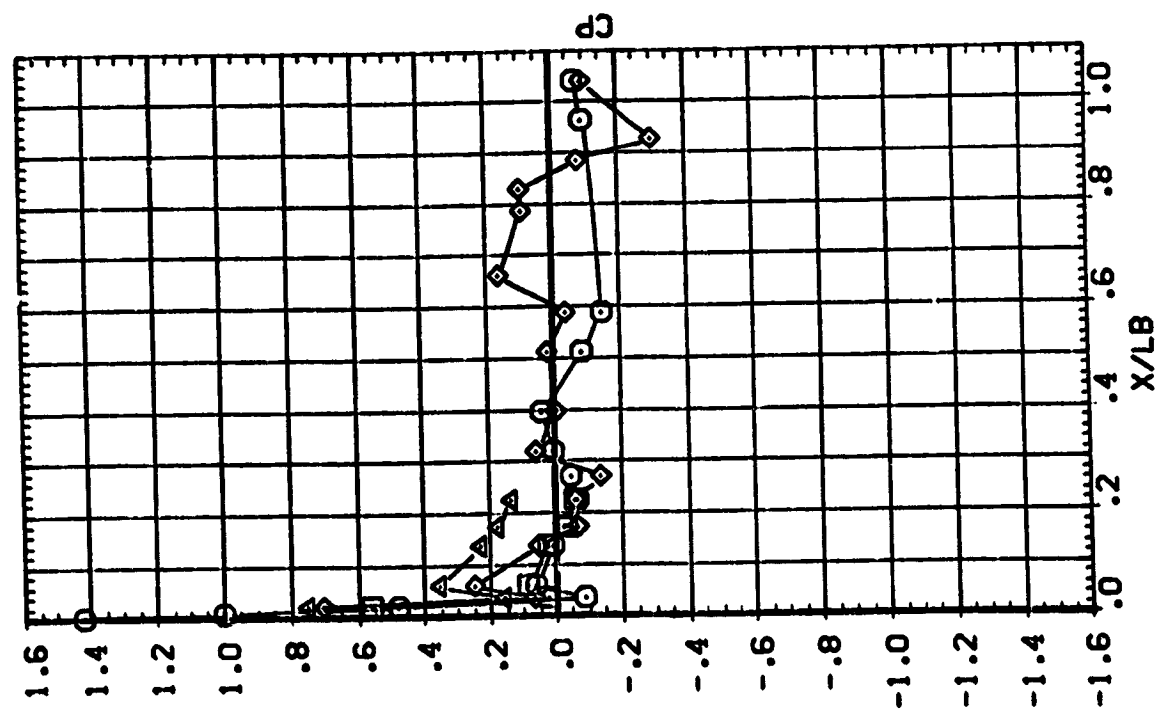
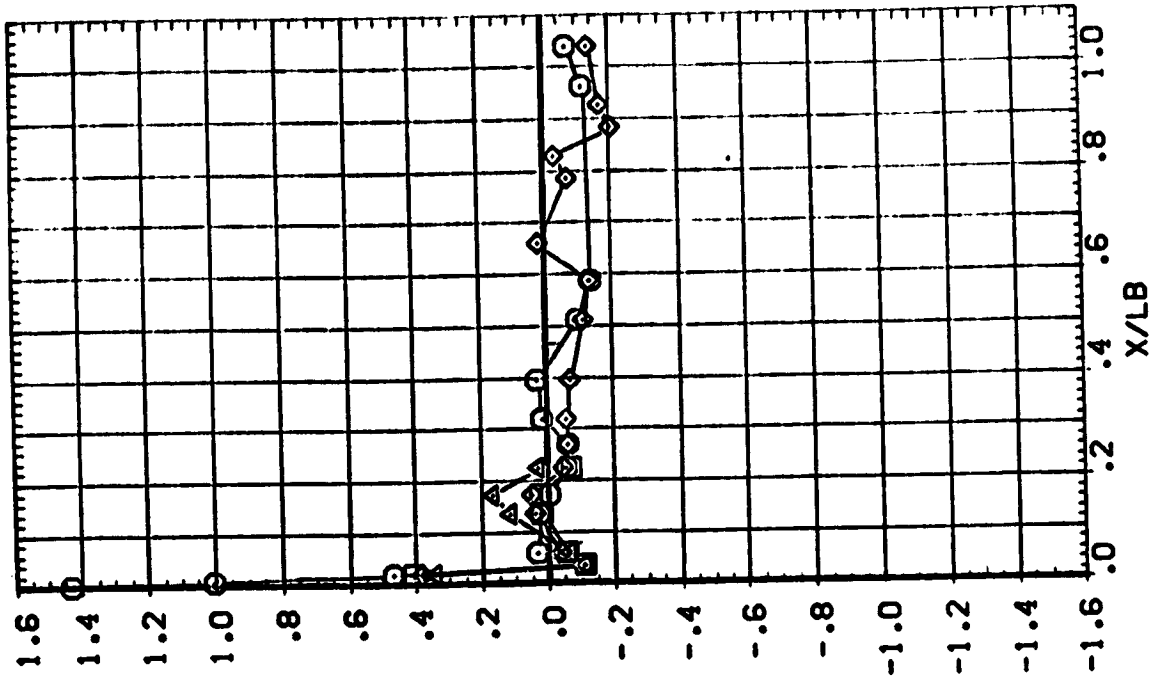
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (R80808)

PARAMETRIC VALUES
 ALPHAT -4.000
 RUDDER .000
 RLOFLR .000
 ORBINC .500
 ELEVEN .000

PHI .000
 BETAT -6.150
 MACH 1.555
 20.000
 40.000
 55.000

SYMBOL
 ○
 □
 ◇
 △



LONGTUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

(R00000)

AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE

SYMBOL
○
□
◇
△

PHI
70.000
90.000
120.000
135.000

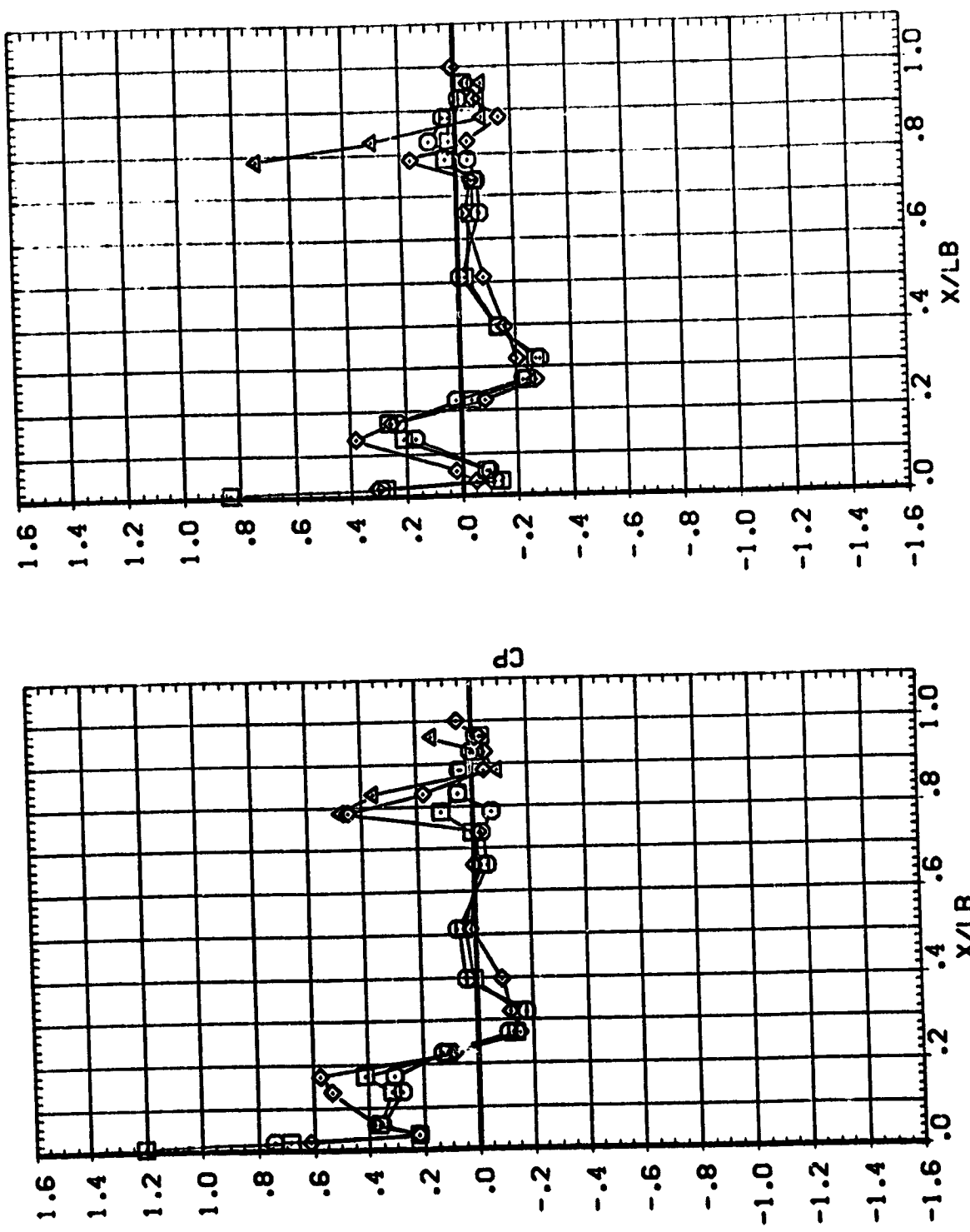
BETAT
-6.150
5.030

MACH
1.555

PARAMETRIC VALUES
ALPHAT
R-000
R-000
R-000

CRBINC
ELEVEN

.500
.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (R80B08)

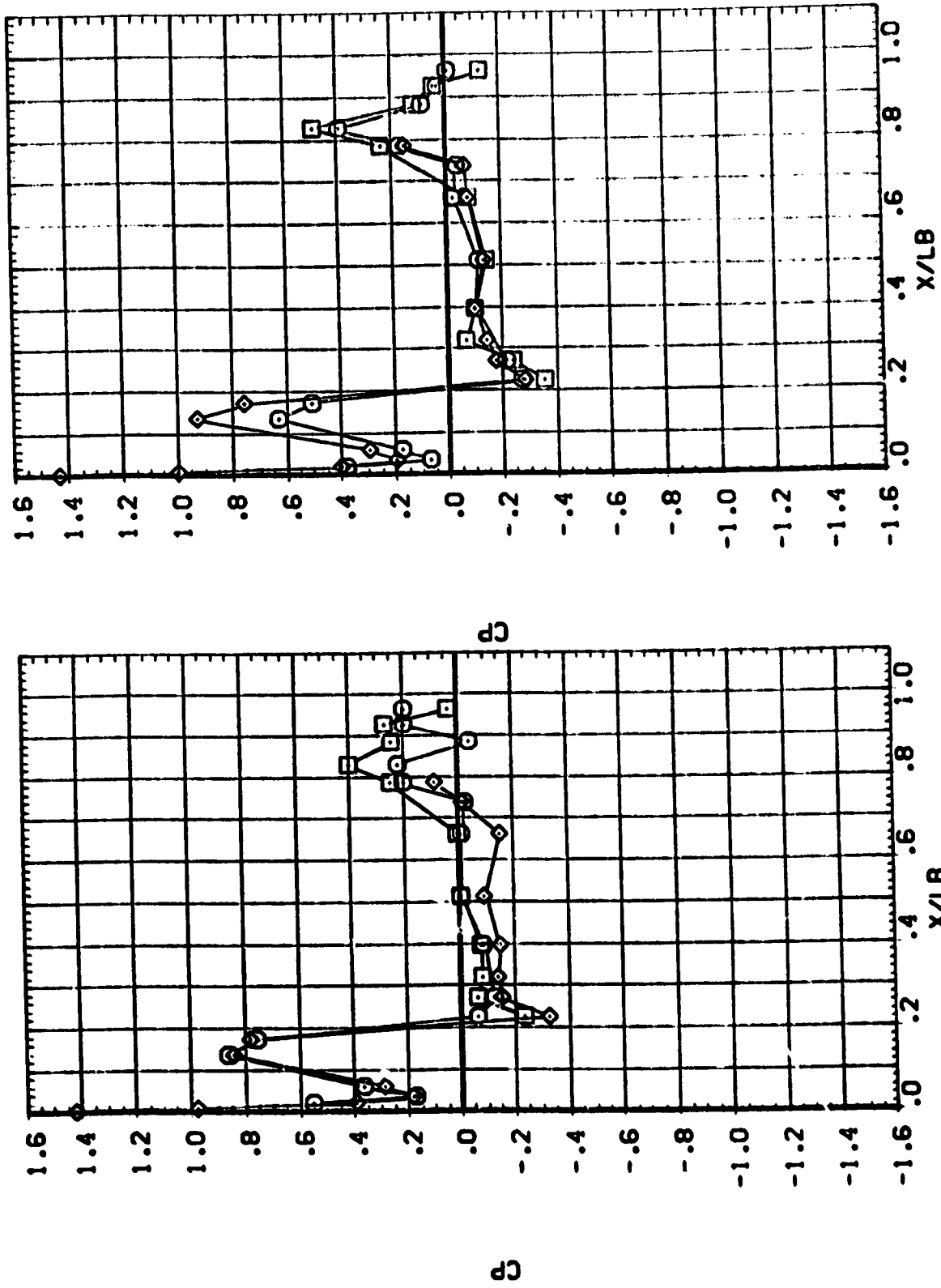
SYMBOL
 ○
 □
 ◇

PHI
 150.000
 165.000
 180.000

BETAT
 -6.150
 5.030

MACH
 1.555

PARAMETRIC VALUES
 ALPHAT
 RDOOR
 RDOFLR
 -4.000
 .000
 .000
 ORBINC
 ELEVEN
 .500
 .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

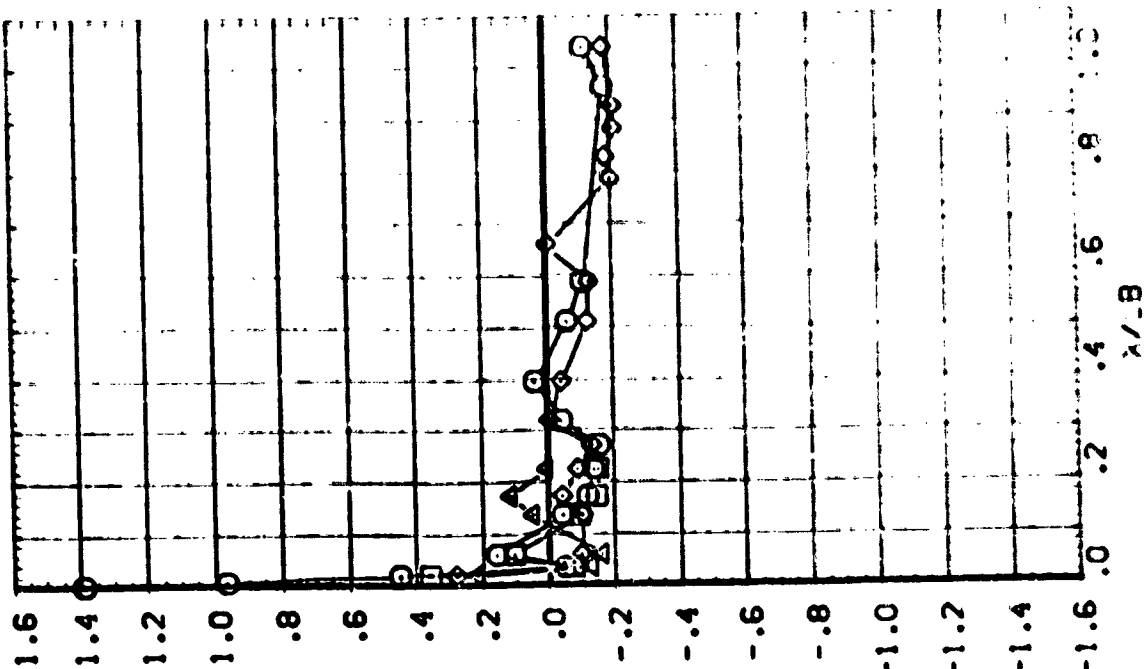
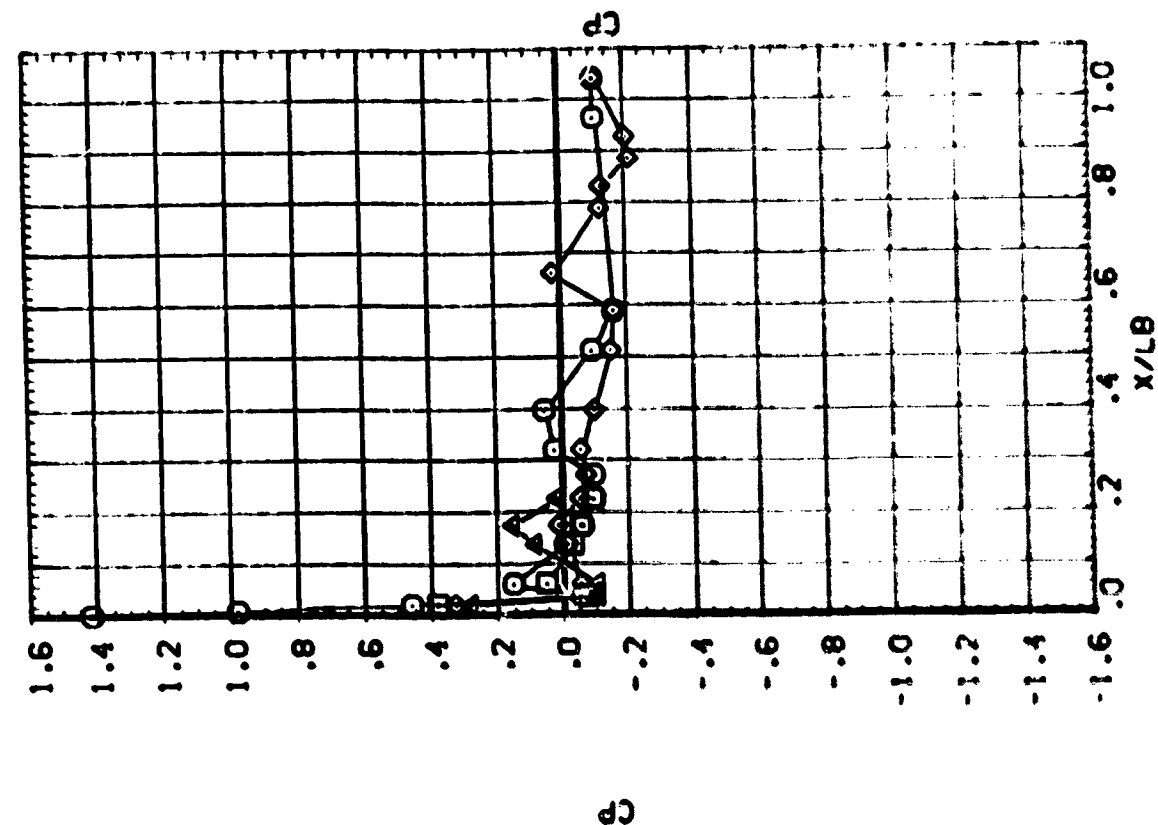
AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBGB08)

SYMBOL
 ○ □ ◇ △

PHI: .000 7.050 1.555
 20.000 9.070
 40.000
 55.000

ALPHA: 0.000 0.000 0.000
 0.000 0.000 0.000
 0.000 0.000 0.000

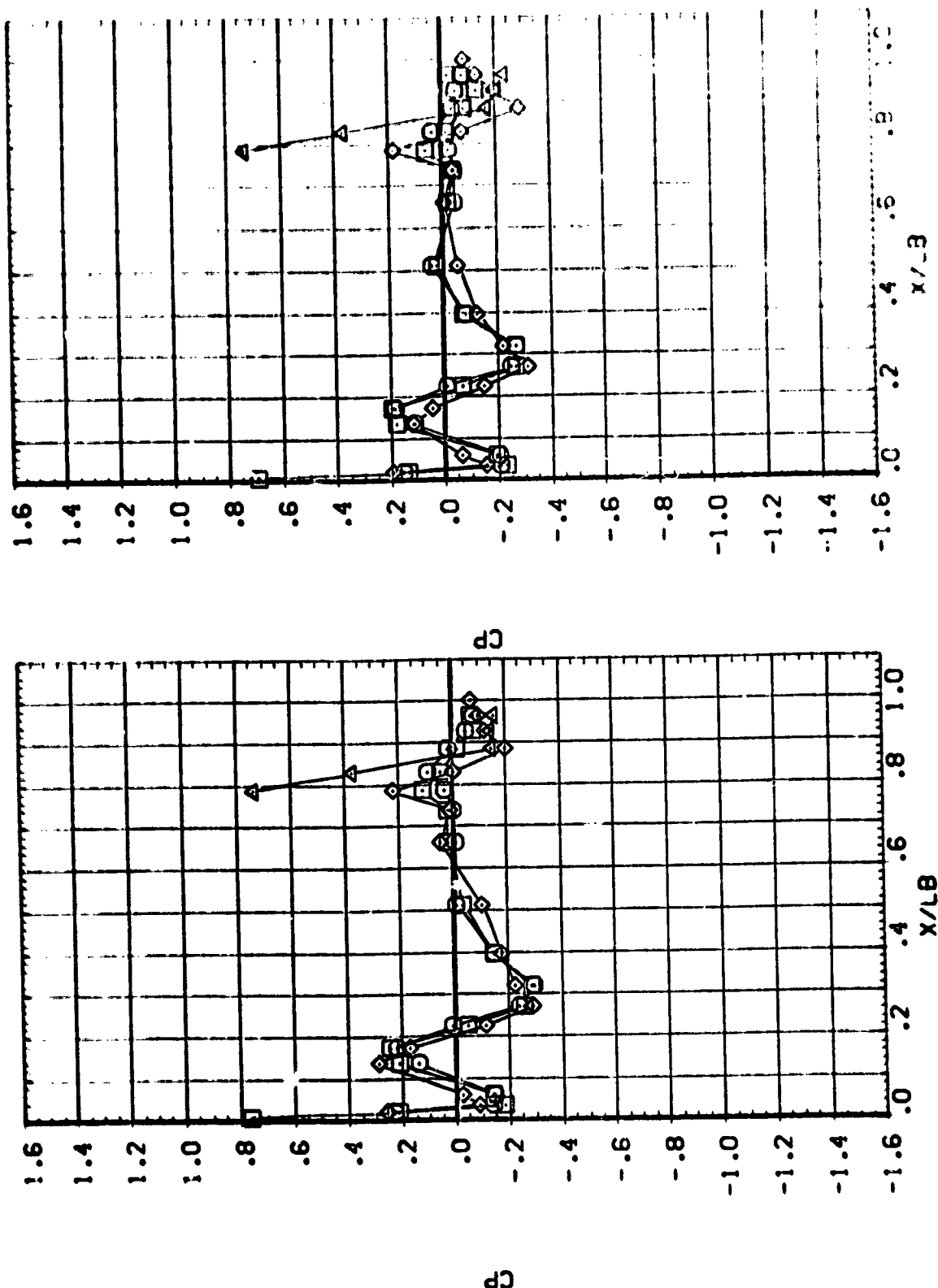
PARAMETRIC VALUES
 -4.000 0.000 0.000
 0.000 0.000 0.000
 0.000 0.000 0.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

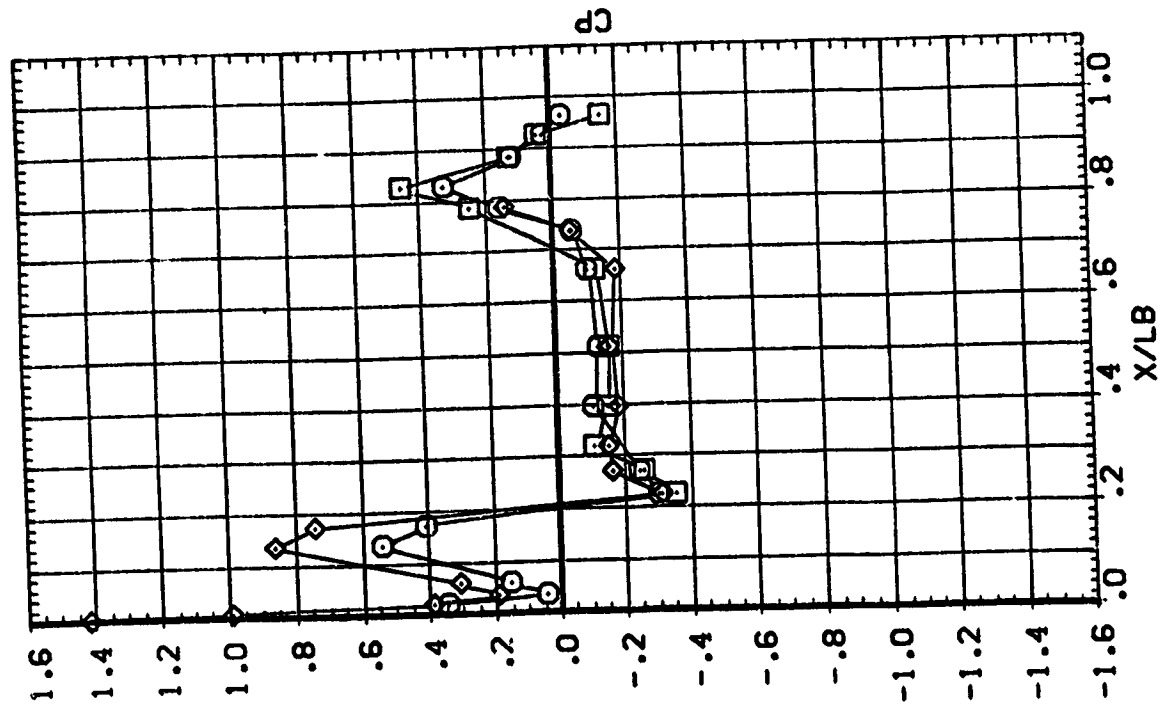
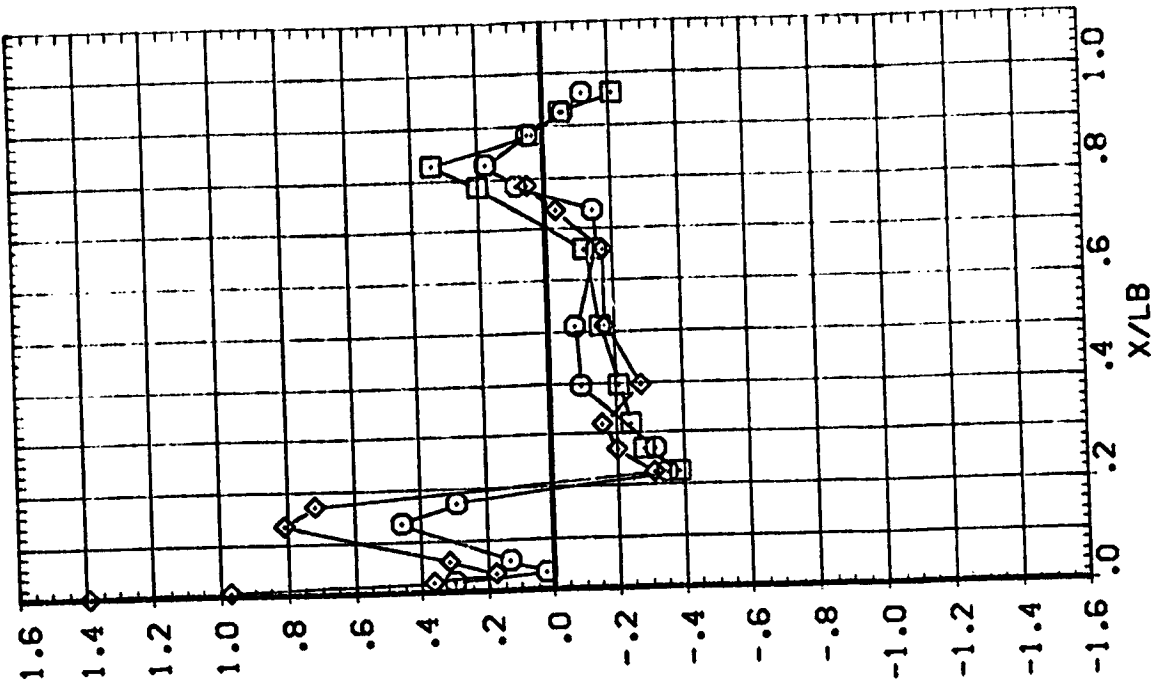
AMES 97-707 1A9 02A - S3 - T9 ORBITER FUSELAGE (R8C308)

SYMBOL	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q18	Q19	Q20	Q21	Q22	Q23	Q24	Q25	Q26	Q27	Q28	Q29	Q30	Q31	Q32	Q33	Q34	Q35	Q36	Q37	Q38	Q39	Q40	Q41	Q42	Q43	Q44	Q45	Q46	Q47	Q48	Q49	Q50	Q51	Q52	Q53	Q54	Q55	Q56	Q57	Q58	Q59	Q60	Q61	Q62	Q63	Q64	Q65	Q66	Q67	Q68	Q69	Q70	Q71	Q72	Q73	Q74	Q75	Q76	Q77	Q78	Q79	Q80	Q81	Q82	Q83	Q84	Q85	Q86	Q87	Q88	Q89	Q90	Q91	Q92	Q93	Q94	Q95	Q96	Q97	Q98	Q99	Q100
VALUE	70.000	80.000	90.000	100.000	110.000	120.000	130.000	140.000	150.000	160.000	170.000	180.000	190.000	200.000	210.000	220.000	230.000	240.000	250.000	260.000	270.000	280.000	290.000	300.000	310.000	320.000	330.000	340.000	350.000	360.000	370.000	380.000	390.000	400.000	410.000	420.000	430.000	440.000	450.000	460.000	470.000	480.000	490.000	500.000	510.000	520.000	530.000	540.000	550.000	560.000	570.000	580.000	590.000	600.000	610.000	620.000	630.000	640.000	650.000	660.000	670.000	680.000	690.000	700.000	710.000	720.000	730.000	740.000	750.000	760.000	770.000	780.000	790.000	800.000	810.000	820.000	830.000	840.000	850.000	860.000	870.000	880.000	890.000	900.000	910.000	920.000	930.000	940.000	950.000	960.000	970.000	980.000	990.000	1000.000						



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AMES 97-707 INQ UEA 1 JJ 13 000000 0000 0000

SYMBOL
○
□
◇
△

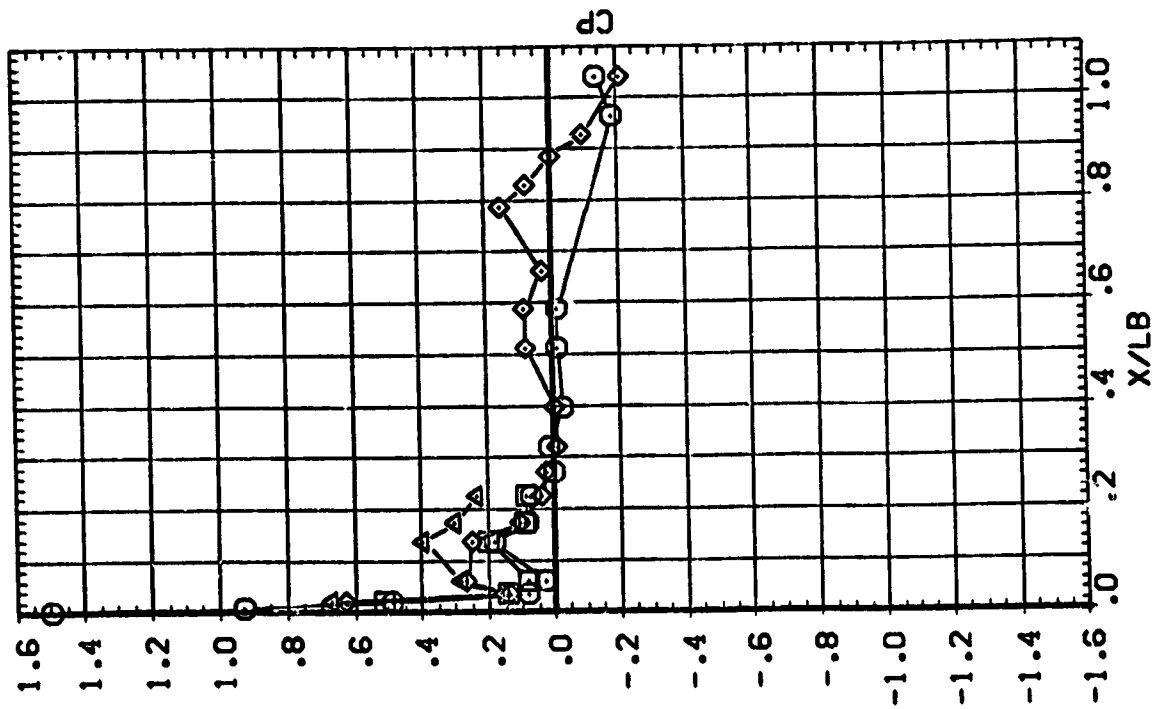
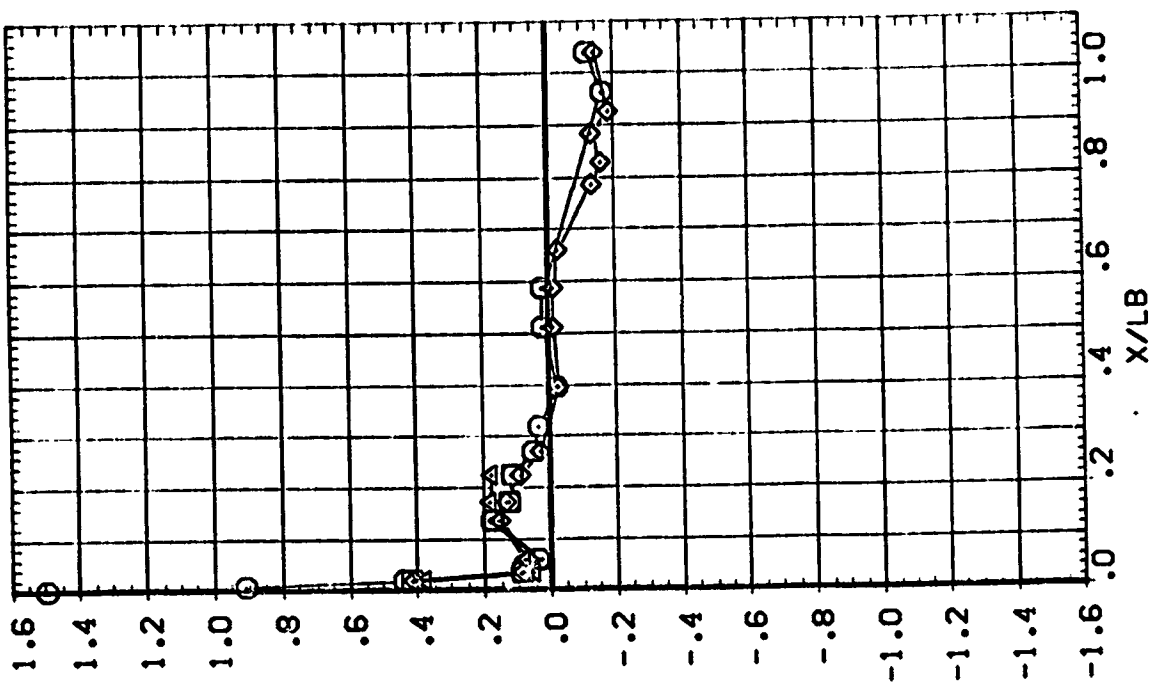
PHI
.000
20.000
40.000
55.000

BETAT
-6.270
3.920

MACH
2.000

PARAMETRIC VALUES
ALPHAT
RUDER
RUDFLR

-4.000
.000
.000
CRBINC
ELEVON
SQC
CCC



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

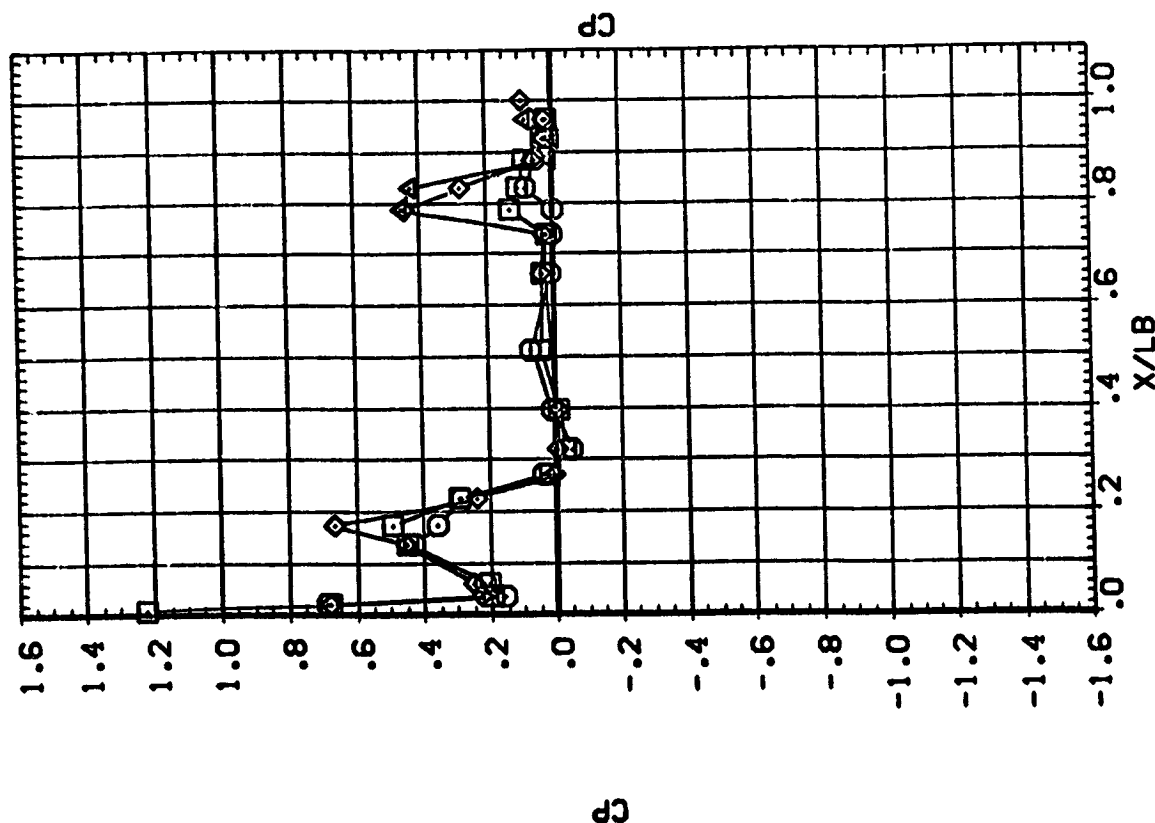
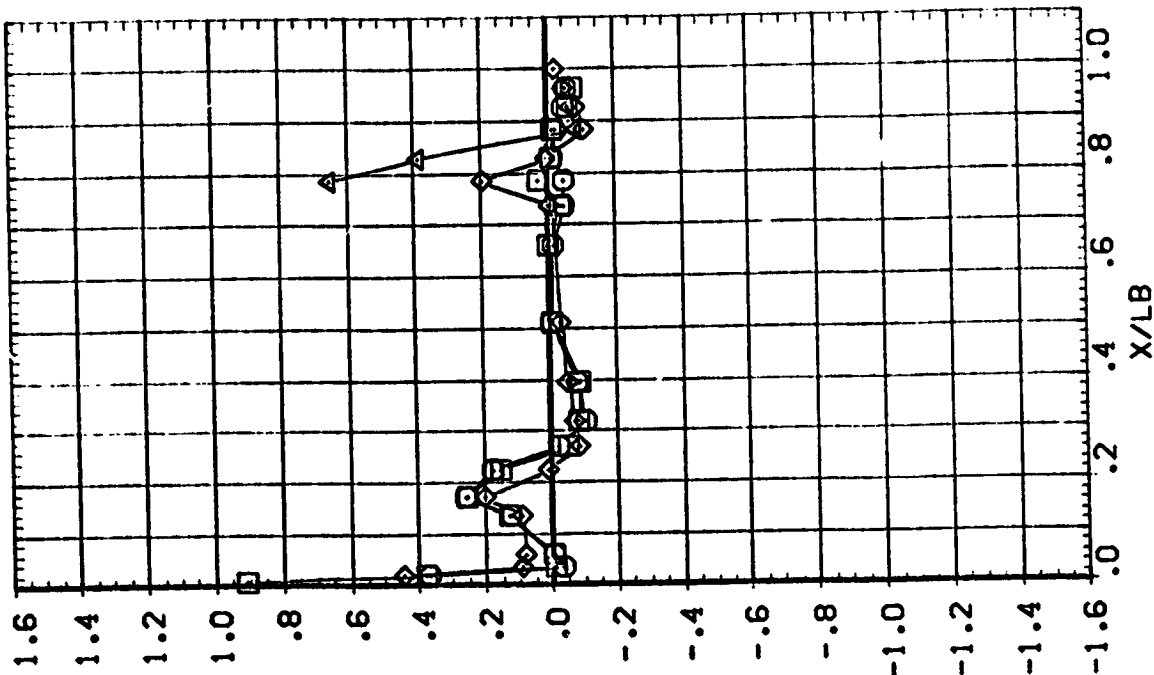
SYMBOL
 ○ □ ◇ △

PHI
 70.000
 90.000
 120.000
 135.000

BETAT
 -5.270
 3.920

MACH
 2.000

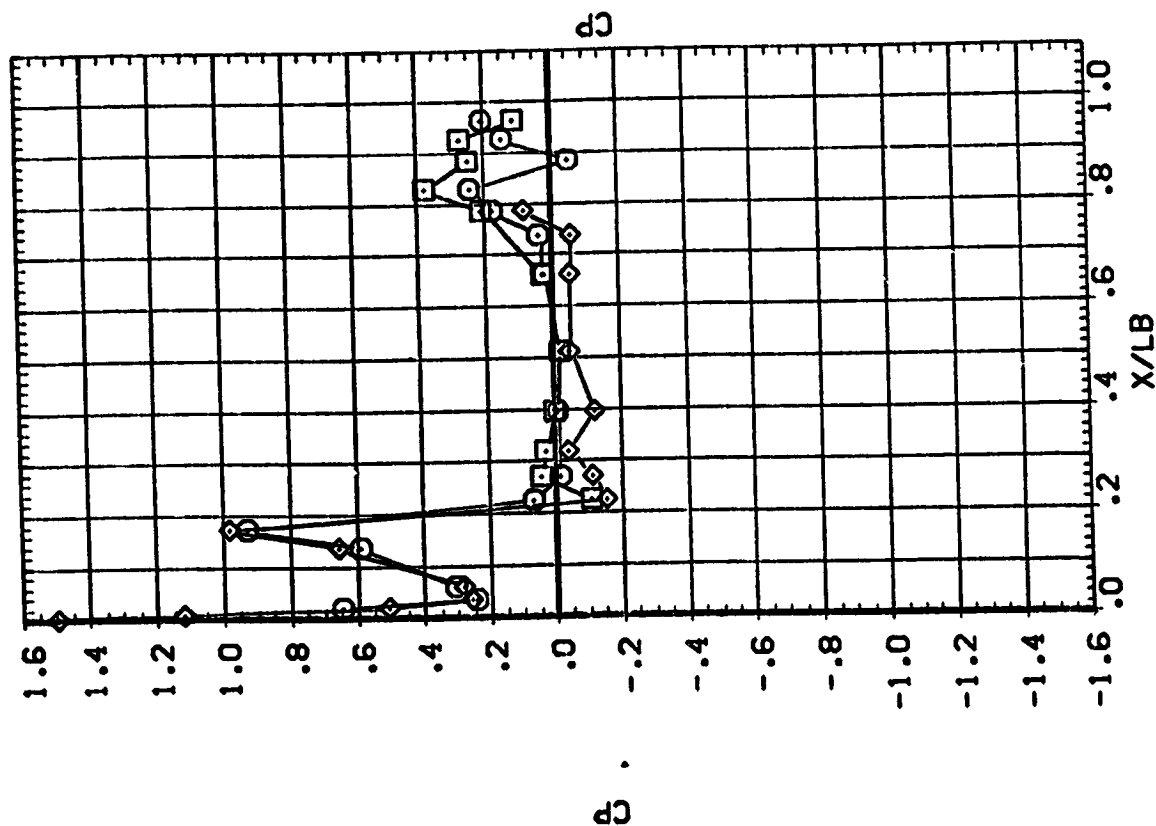
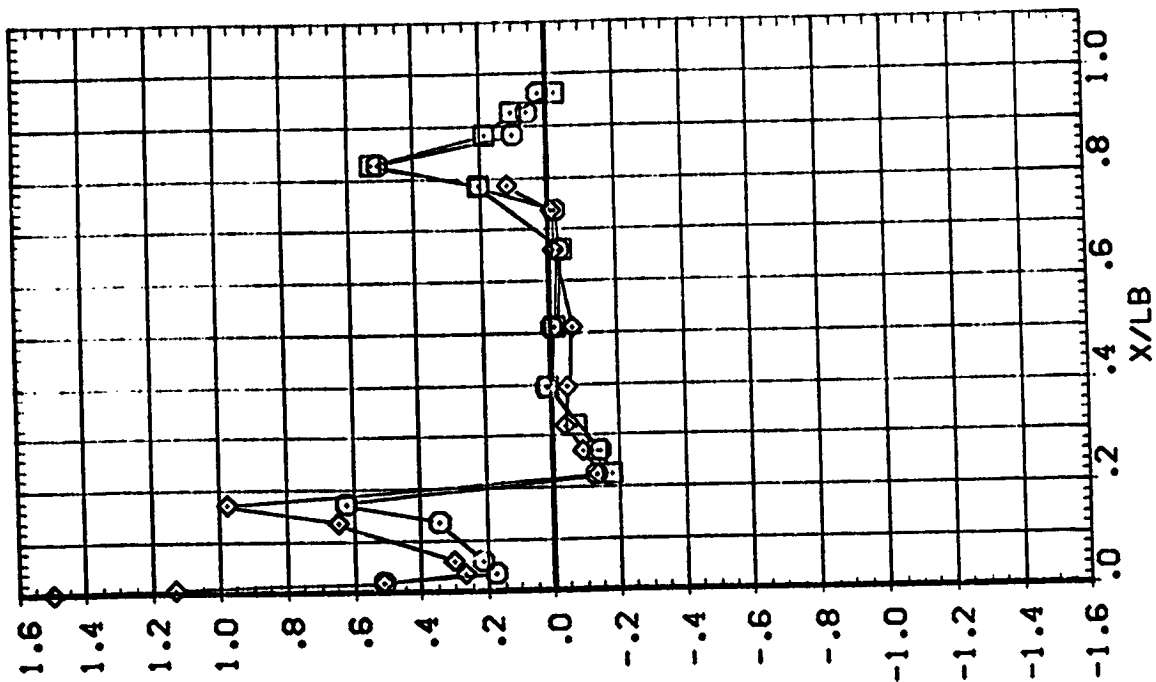
PARAMETRIC VALUES
 ALPHAAT -4.000 ORBINC .500
 R00ER .000 ELEVON .000
 R00LR .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (R80B08)

SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES
○	150.000	-6.270	2.000	ALPHA-T
□	165.000	3.920		RODOR
◇	180.000			RUEFLR
				ORBNIC
				ELEVON
				.500
				.000
				.000



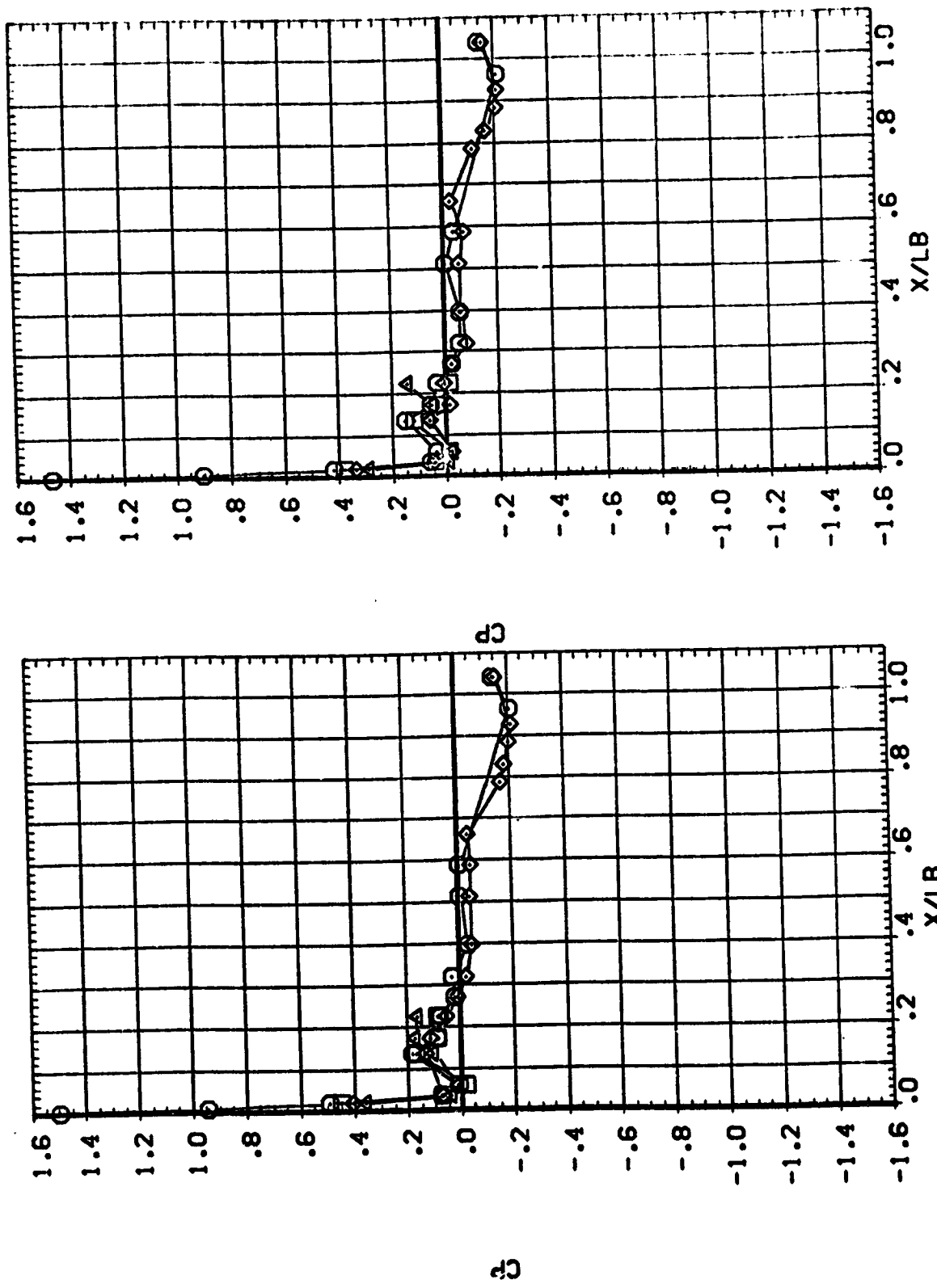
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

SYMBOL
 ○ □ ◇ △

PHI
 .000
 20.000
 40.000
 55.000

BETAT MACH
 5.960 2.000
 8.01C

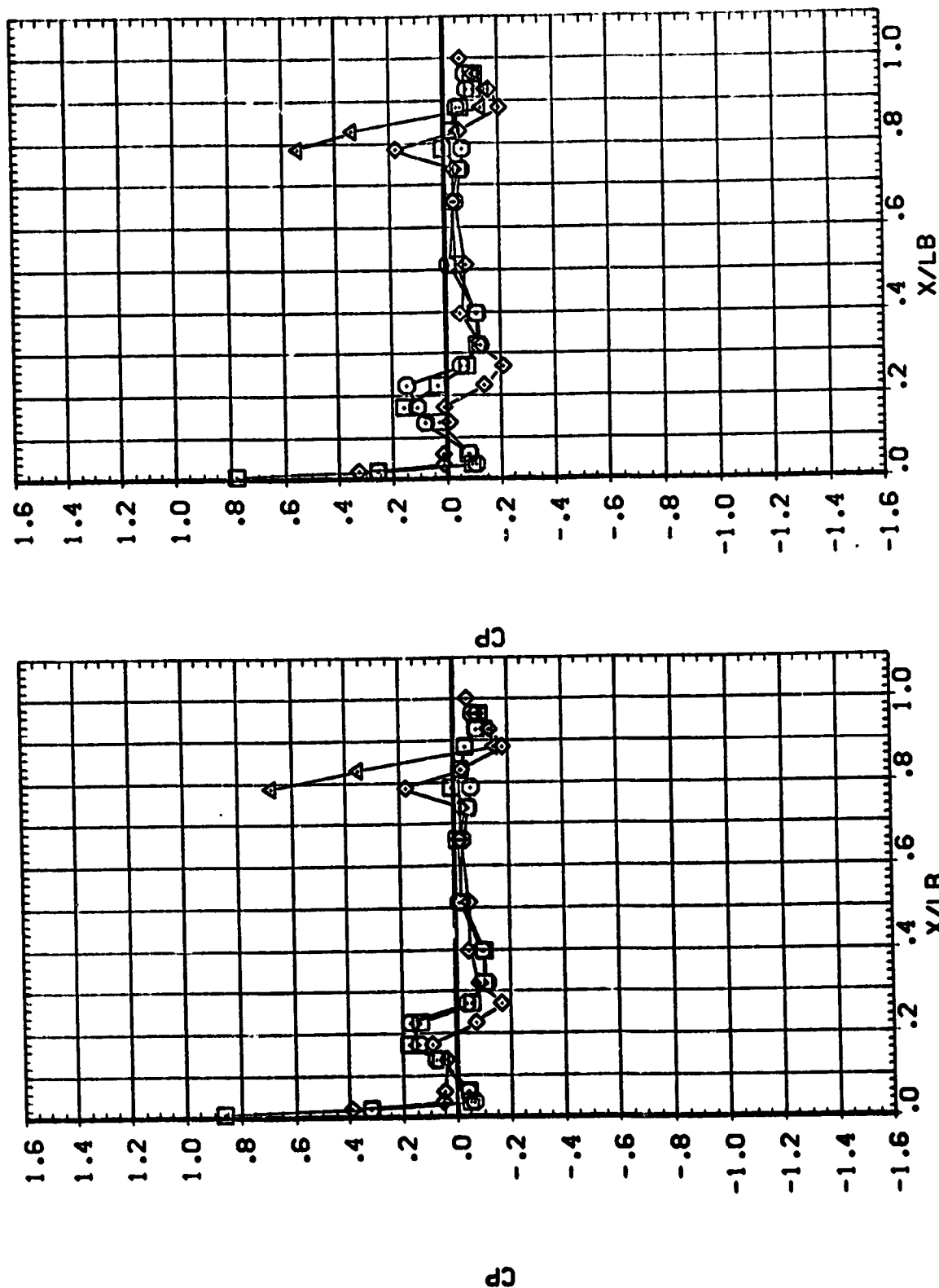
PARAMETRIC VALUES
 ALPHAT -4.000 ORBITINC .500
 RUDDER .000 ELEVON .000
 RUDDLR .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RB0808)

SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES
○	70.000	5.960	2.000	ALPHAT
□	90.000	8.010		RUDDER
◇	120.000			RJOF LR
△	135.000			



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RB0808)

SYMBOL
 ○
 □
 ◇

PHI
 150.000
 165.000
 180.000

BETA
 5.960
 8.010

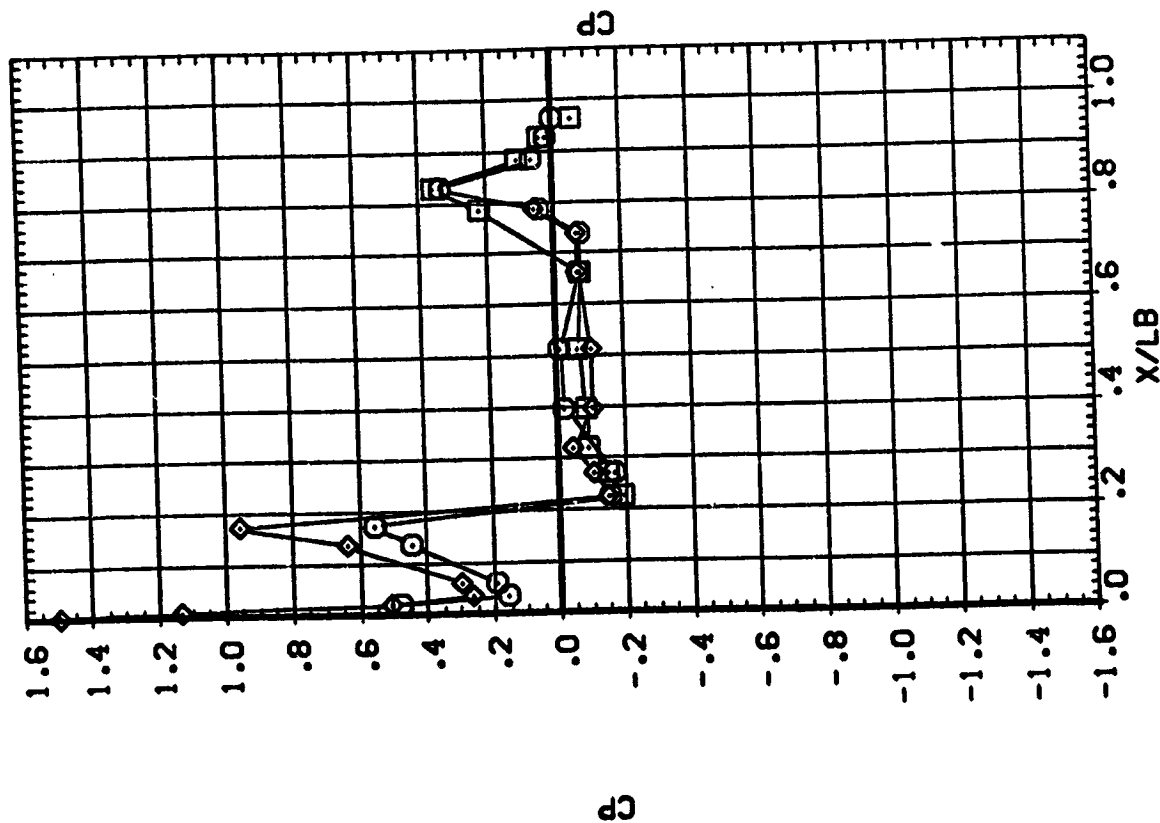
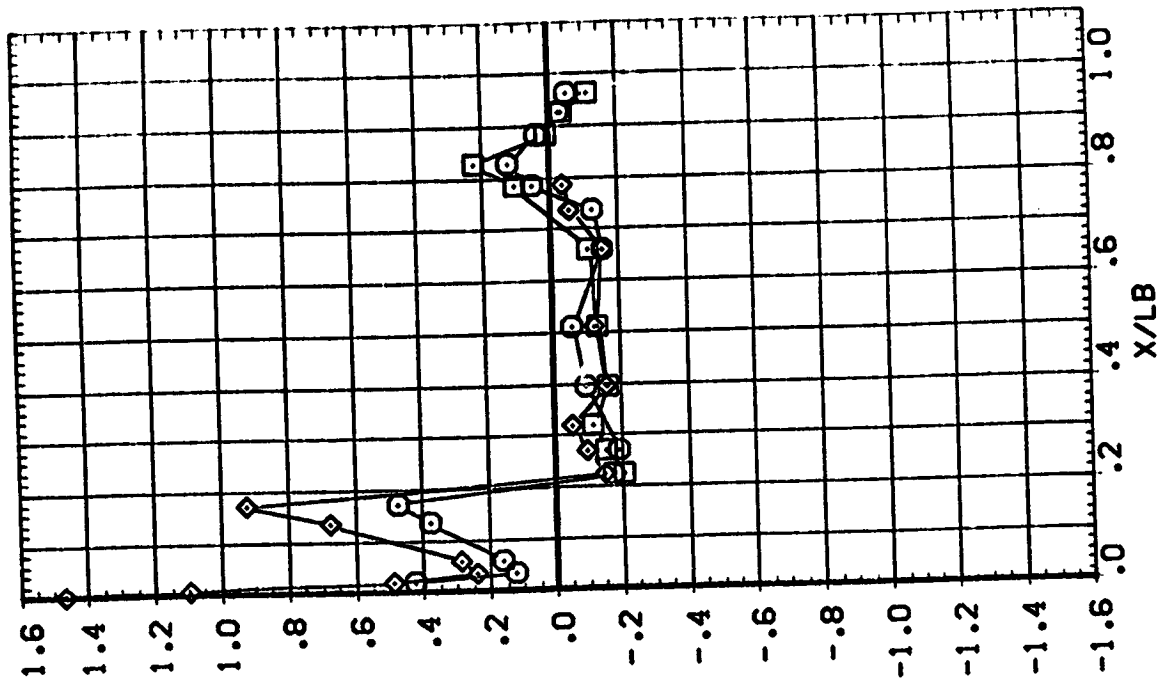
MACH
 2.000

PARAMETRIC VALUES

ALPHAT
 RUOER
 RUOFLR

-4.000
 .000
 .000

ORBITINC
 ELEVEN
 .500
 .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBOB10)

SYMBOL
 ○ □ ◇ △

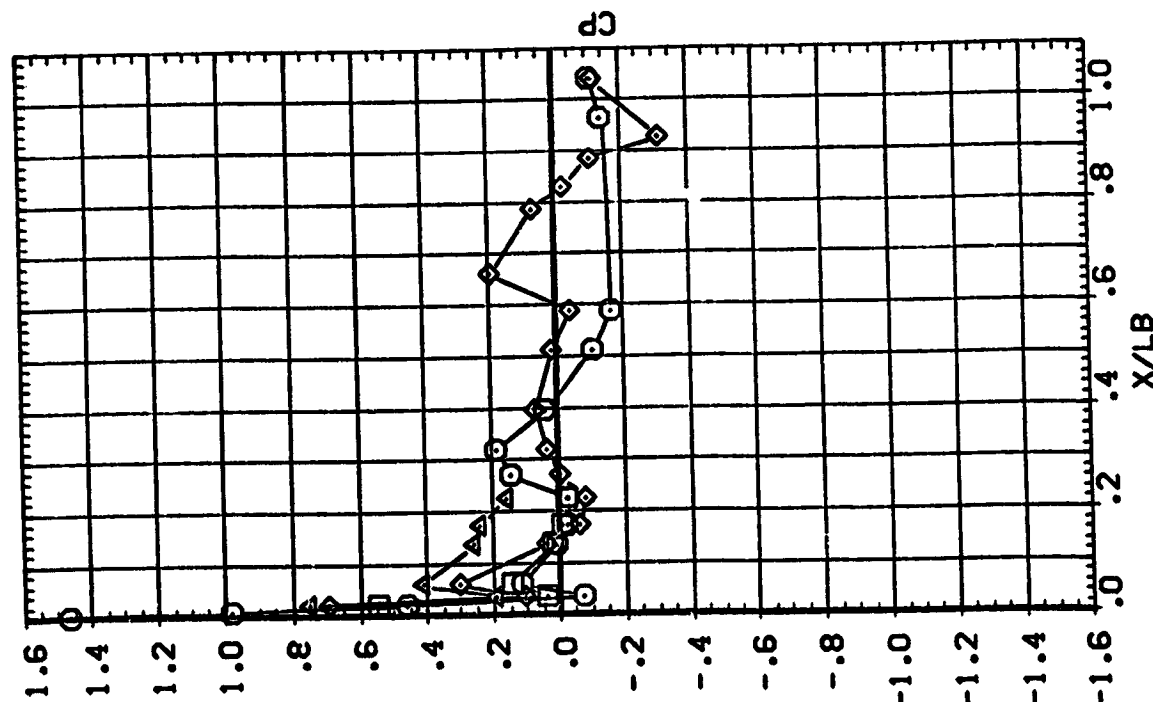
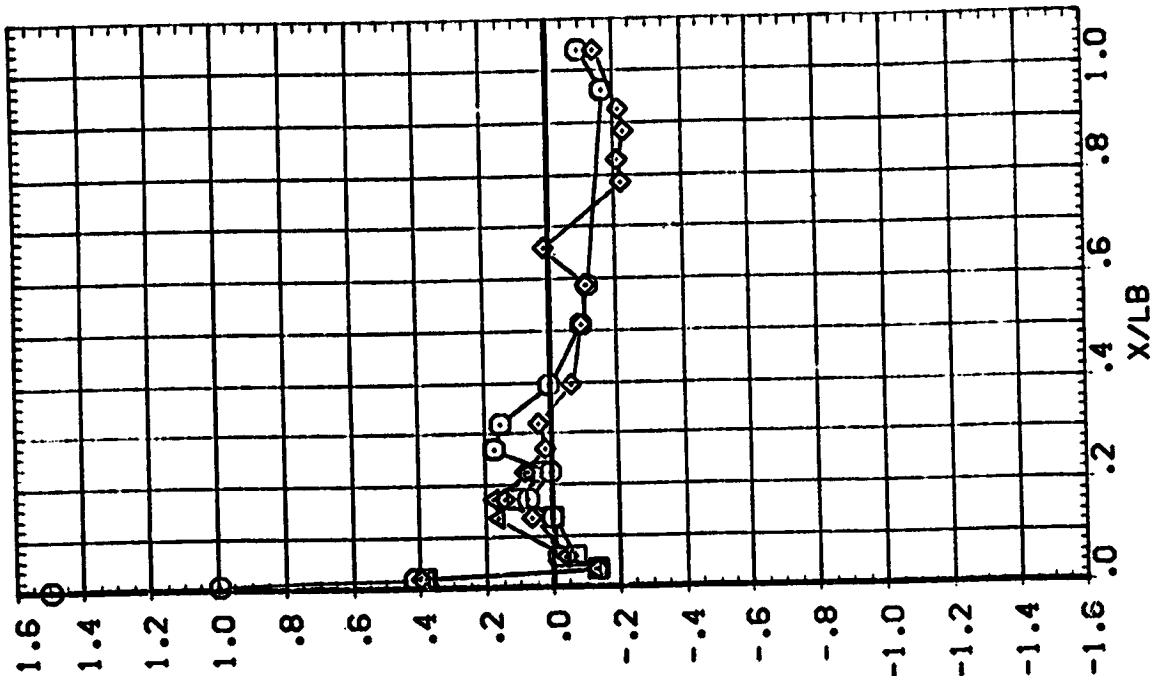
PHI
 .000
 20.000
 40.000
 55.000

BETAT
 -6.210
 3.650

MACH
 1.555

PARAMETRIC VALUES

ALPHAT
 R2JDER
 R2JFLR
 -8.000
 .000
 .000
 ORBINC
 ELEVON
 .500
 .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

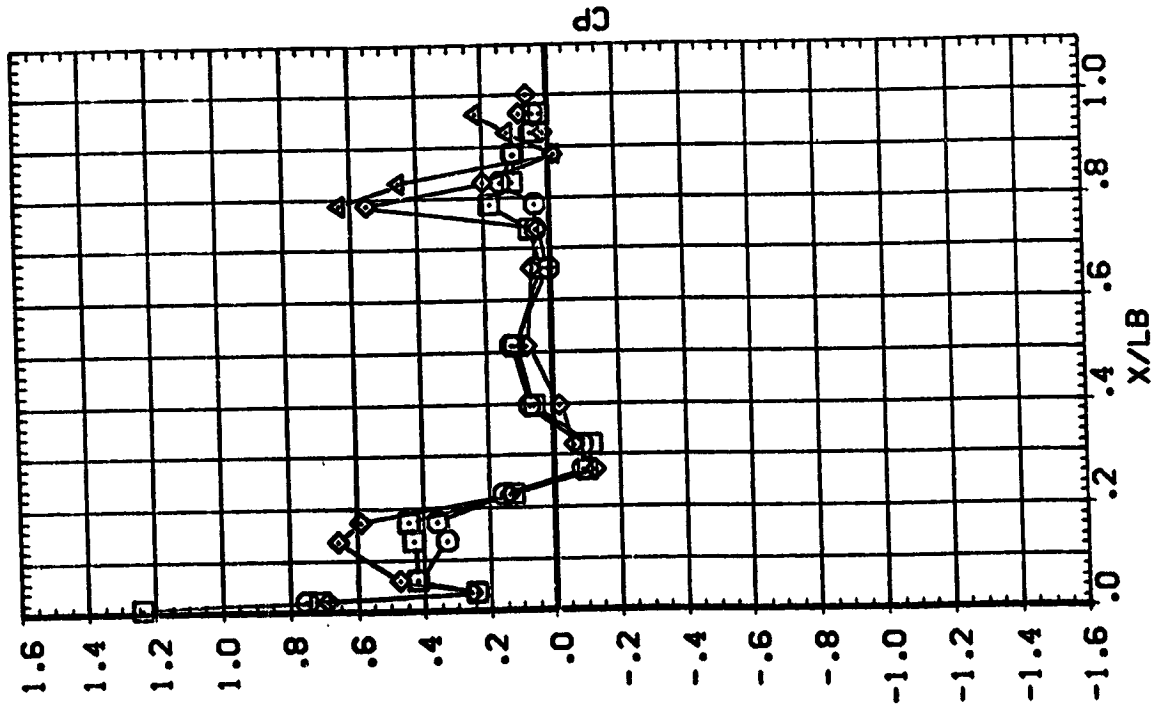
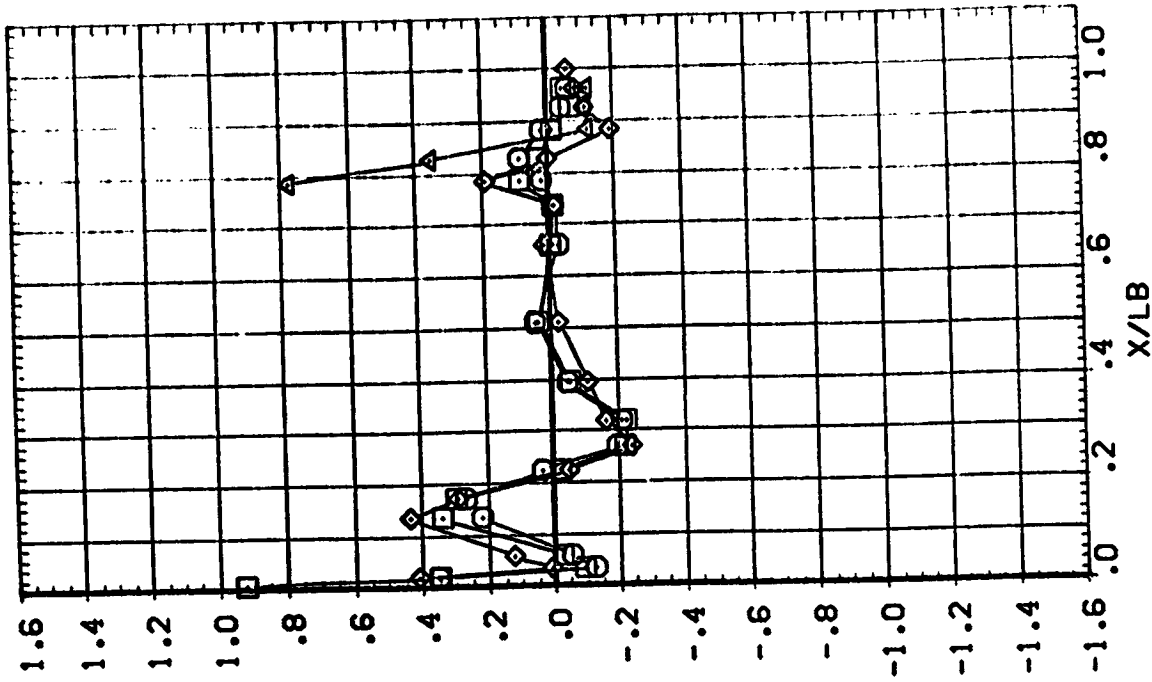
SYMBOL
 ○ □ ◇ △

PHI 70.000
 90.000
 120.000
 135.000

BETAT -6.210
 3.650

MACH 1.555

PARAMETRIC VALUES
 ALPHAT -8.000
 RUDDER .000
 RUOFLR .000
 DRB:NC .500
 ELEVON .000

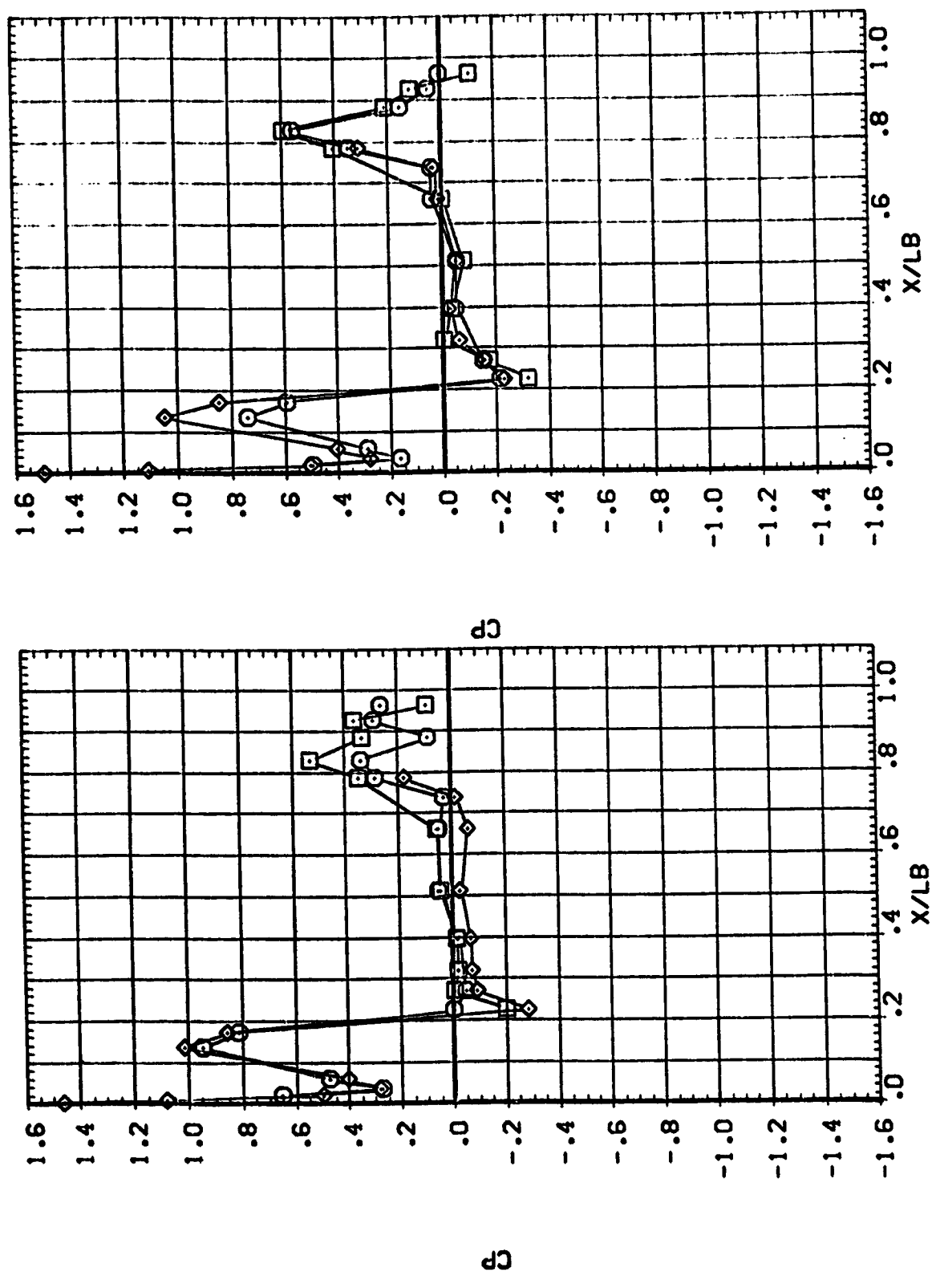


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

III

AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (R80B10)

SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES
○	150.000	-6.210	1.555	ALPHAT
□	165.000	3.650		RUDOR
◇	180.000			RUDFLR
				-8.000
				599.1NC
				.000
				ELEVON
				.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (R80B10)

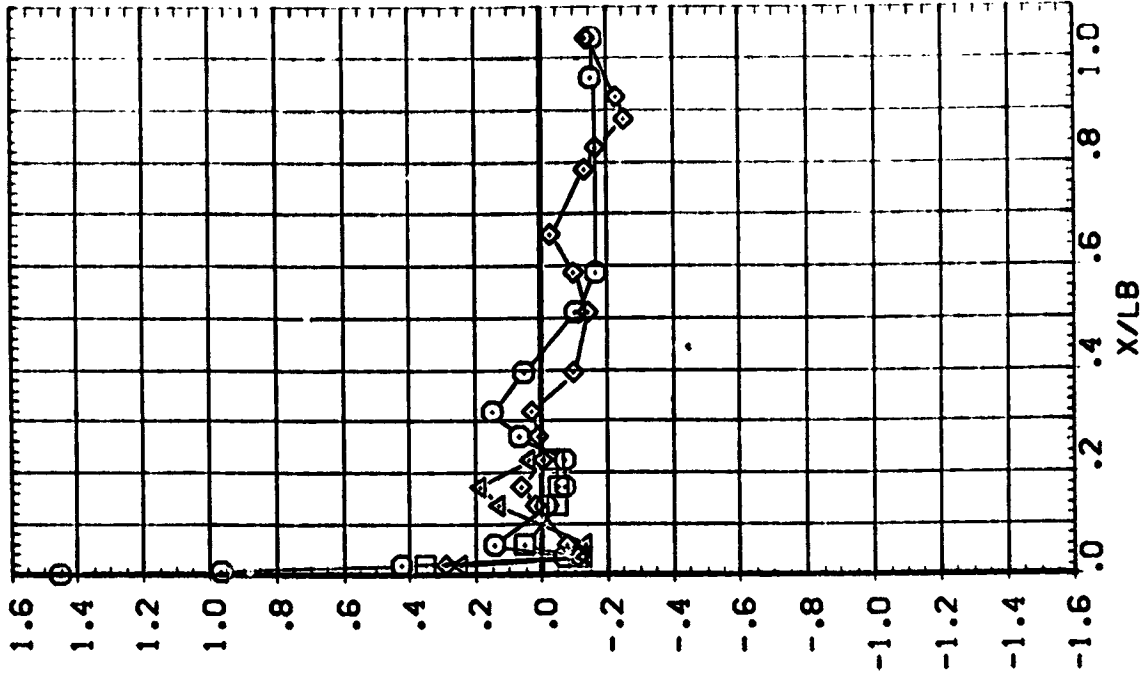
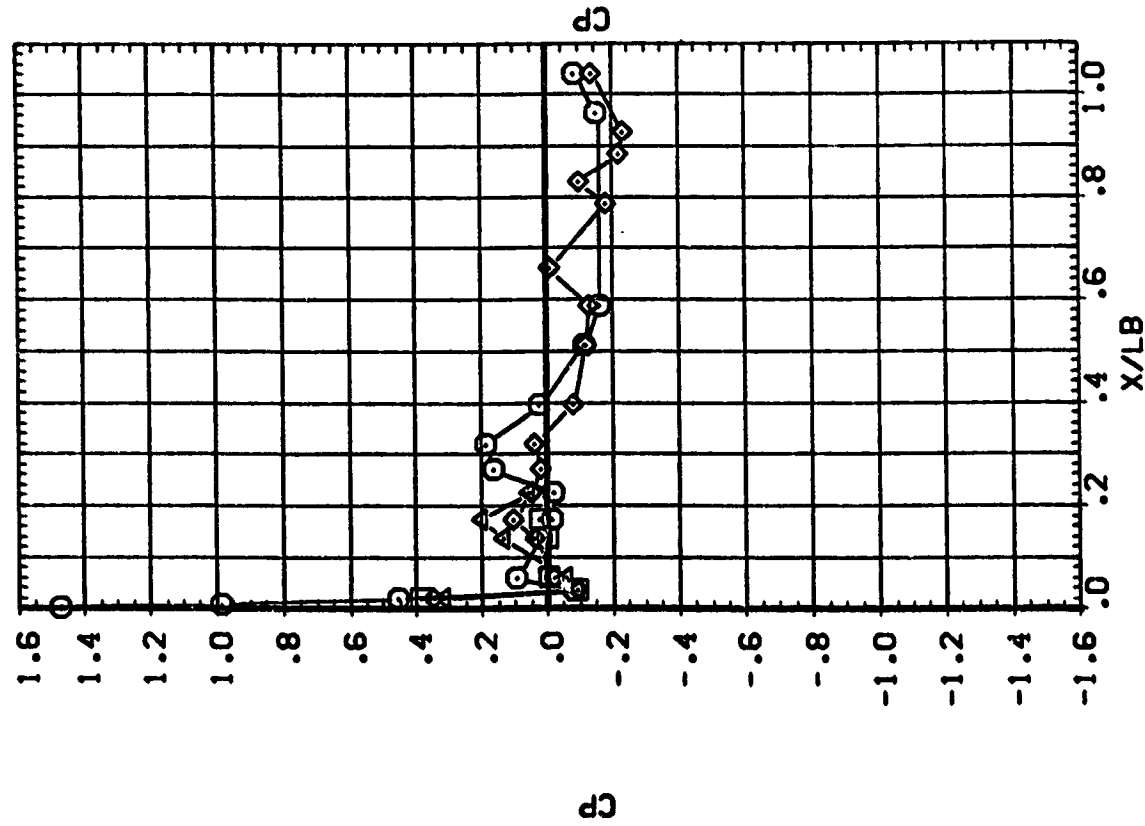
SYMBOL
 ○
 □
 ◇
 △

PHI
 .000
 20.000
 40.000
 55.000

BETAT
 5.710
 7.770

MACH
 1.555

PARAMETRIC VALUES
 ALPHAT
 RUDDER
 RUOFLR
 -8.000
 .000
 .000
 ORBINC
 ELEVON
 .500
 .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

III

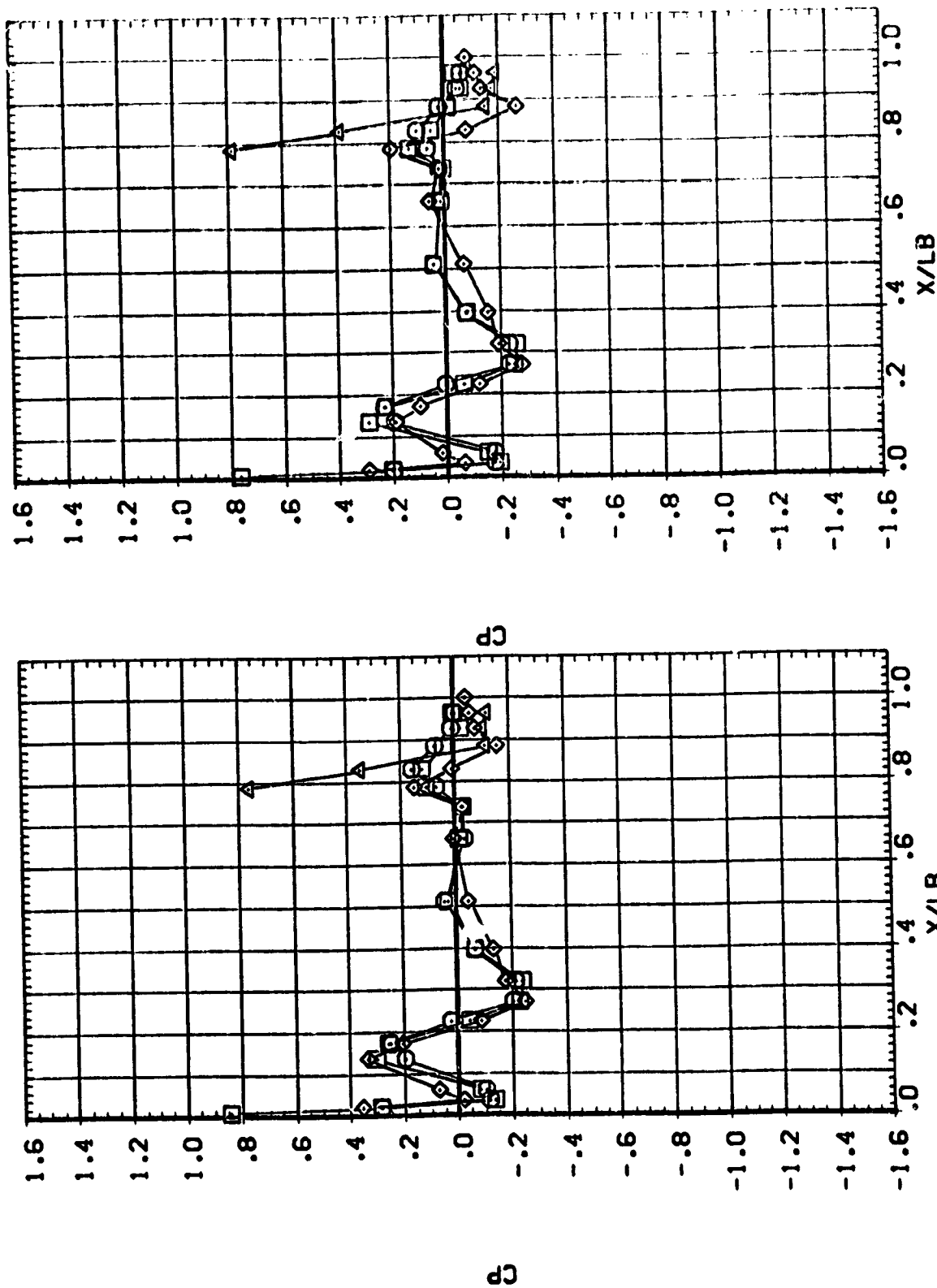
AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (R80810)

SYMBOL
 ○ □ ◇ △

PHI
 70.000
 20.000
 120.000
 135.000

BETAT MACH
 5.710 1.555
 7.770

PARAMETRIC VALUES
 ALPHAT -8.000 ORBINC .500
 RJOER .000 ELEVON .000
 RJOFLR .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (R80810)

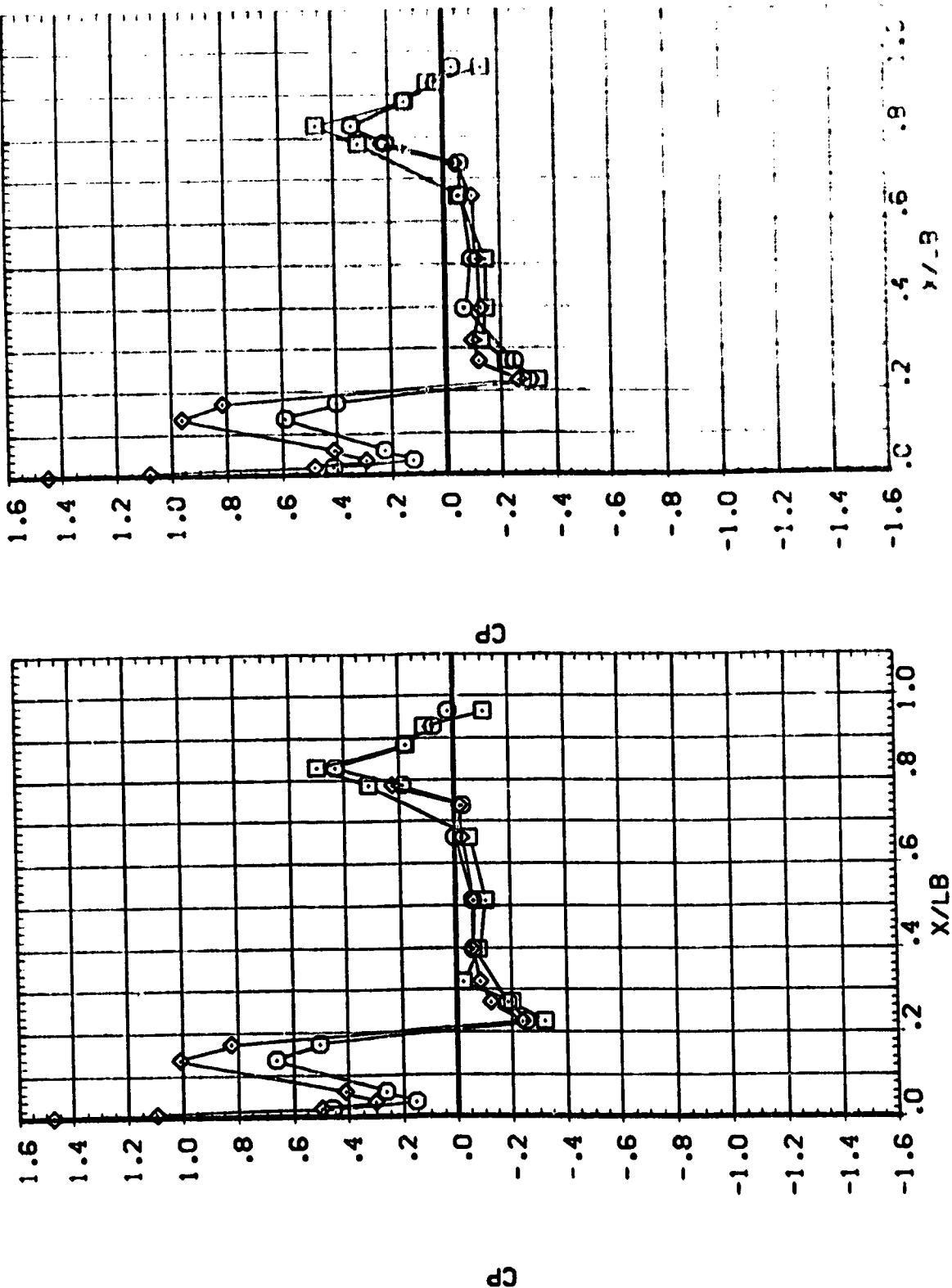
SYMBOL
 ○
 □
 ◇

PHI
 150.000
 165.000
 180.000

BETAT
 5.710
 7.770

MACH
 1.555

PARAMETRIC VALUES
 ALPHAT
 R000R
 R00FLR
 -8.000
 .000
 .000
 C00INC
 ELEVON
 .500
 .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

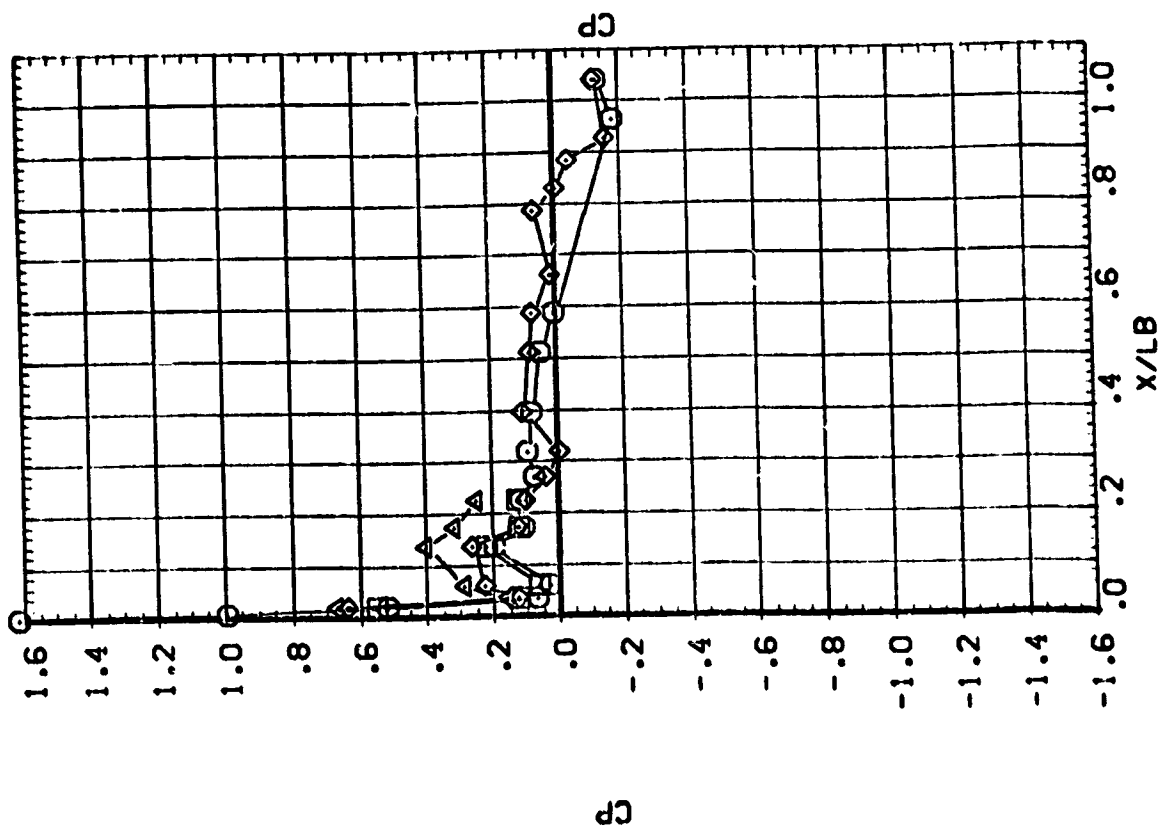
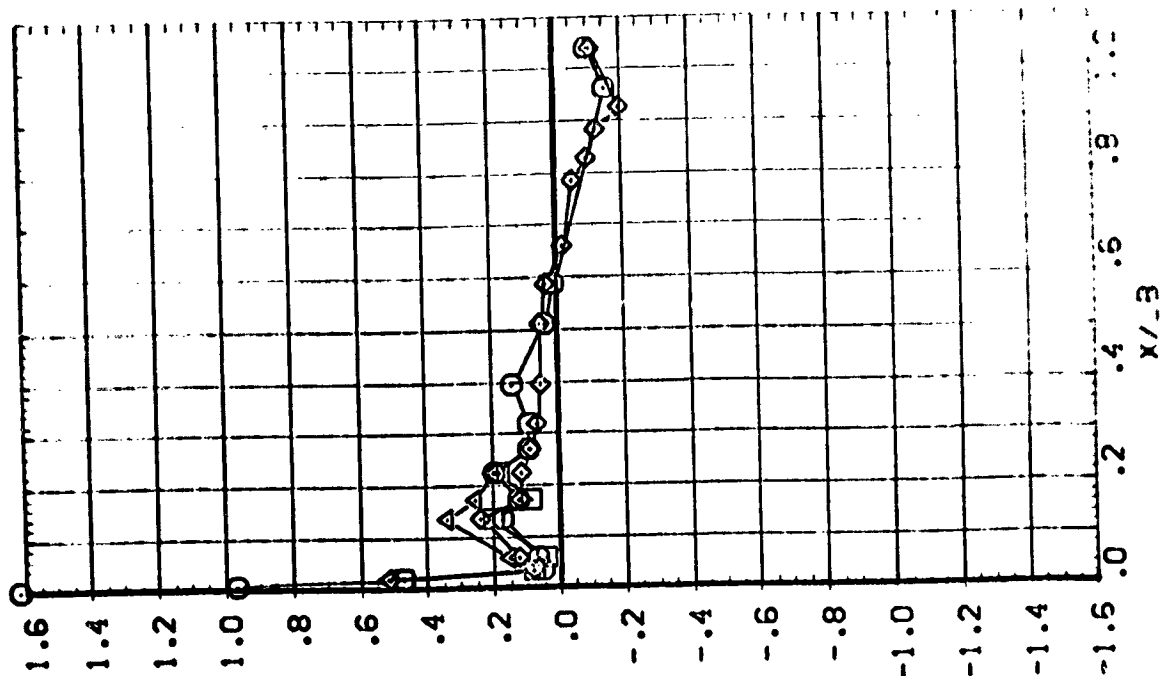
Symbol

PHI
0.000
20.000
40.000
55.000

BEAT MACH
-4.280 2.000
-.170

100-443887-100

311



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

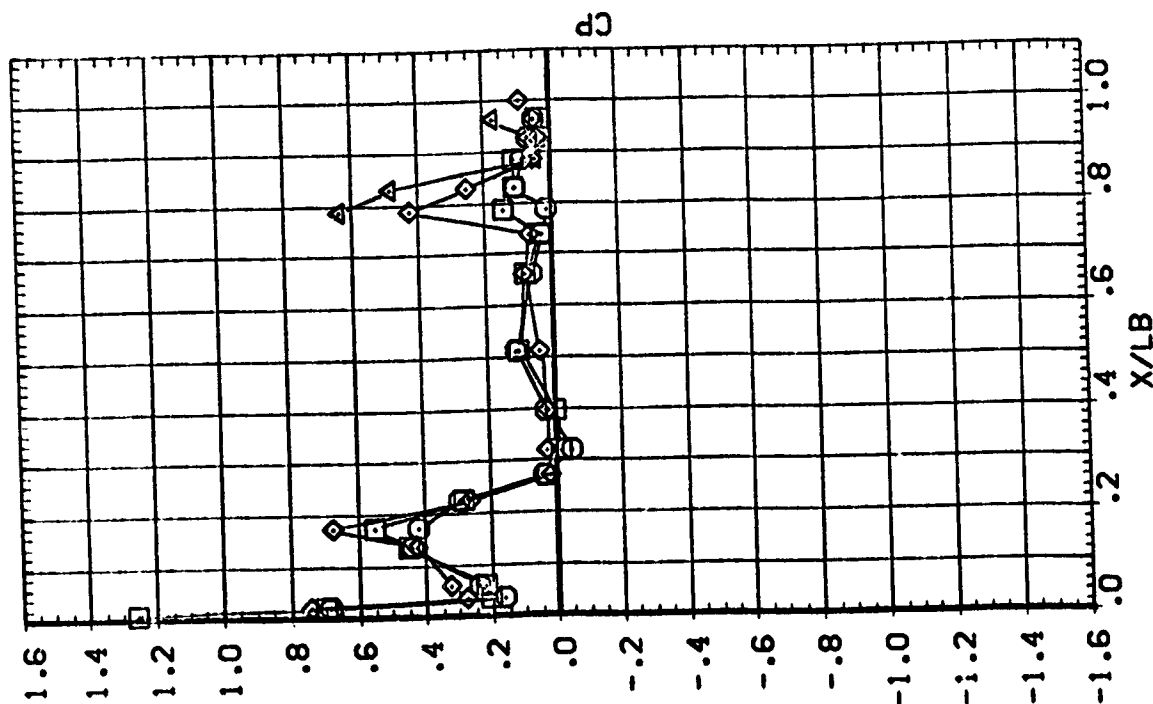
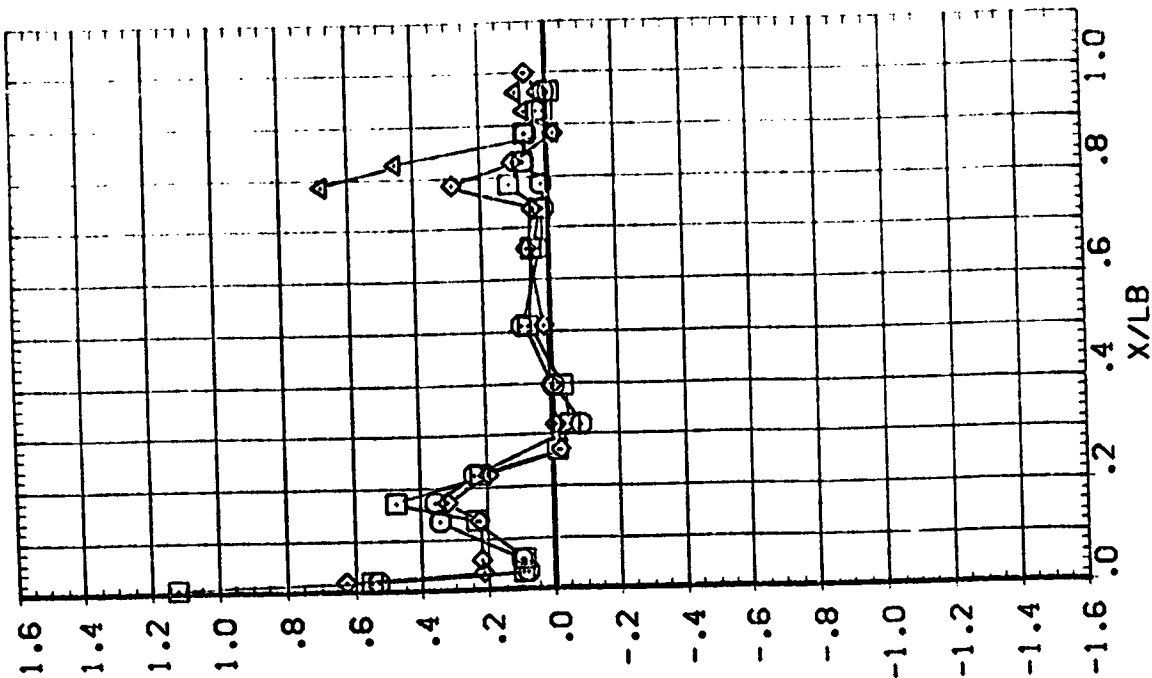
120.000
 135.000

120.000
 135.000

120.000
 135.000

120.000
 135.000

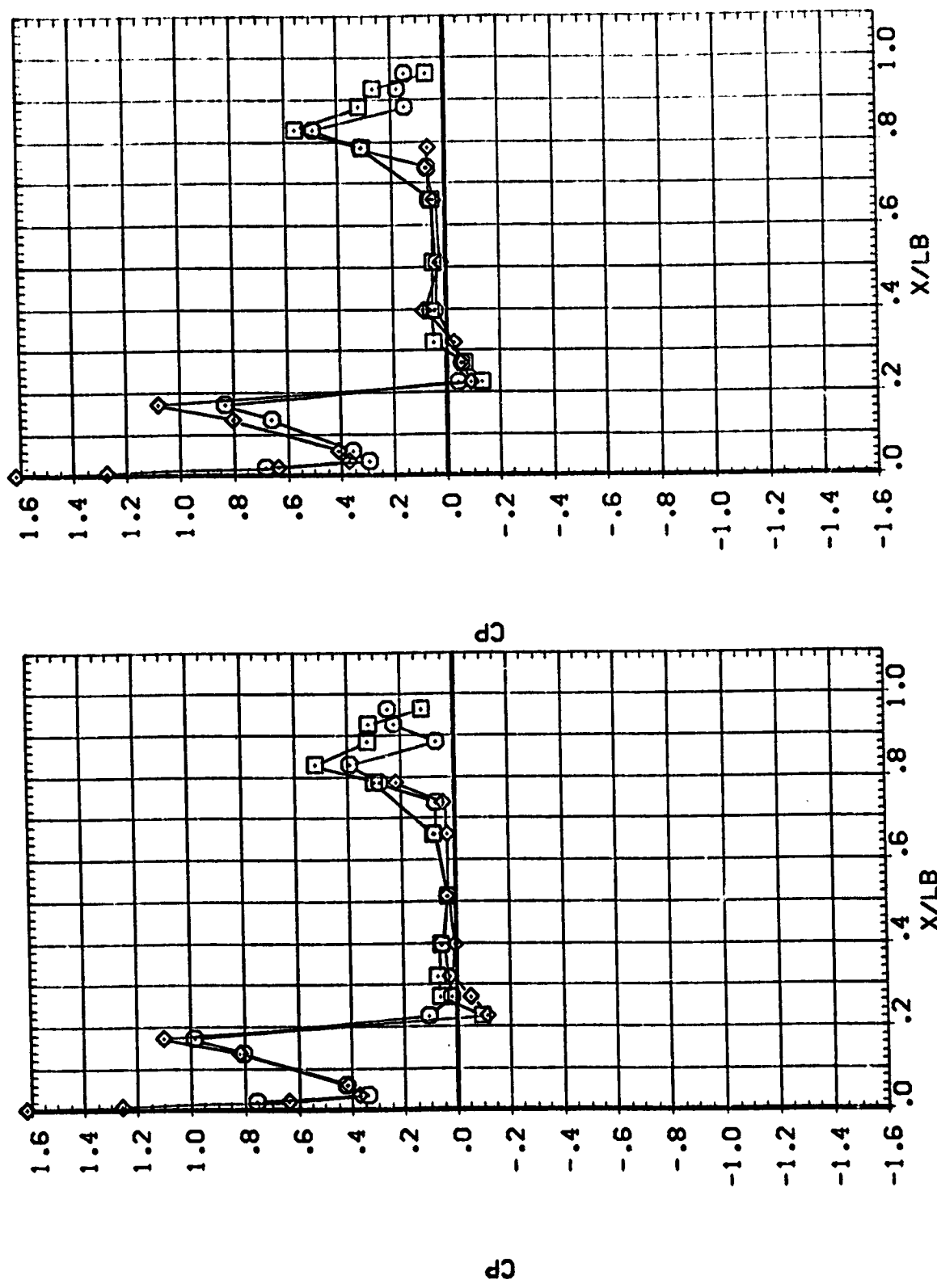
120.000
 135.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

PARAMETRIC VALUES
 ALPHAT -8.000
 RUDDER .000
 RUDDLR .000
 ORBITALC .500
 ELEVON .000

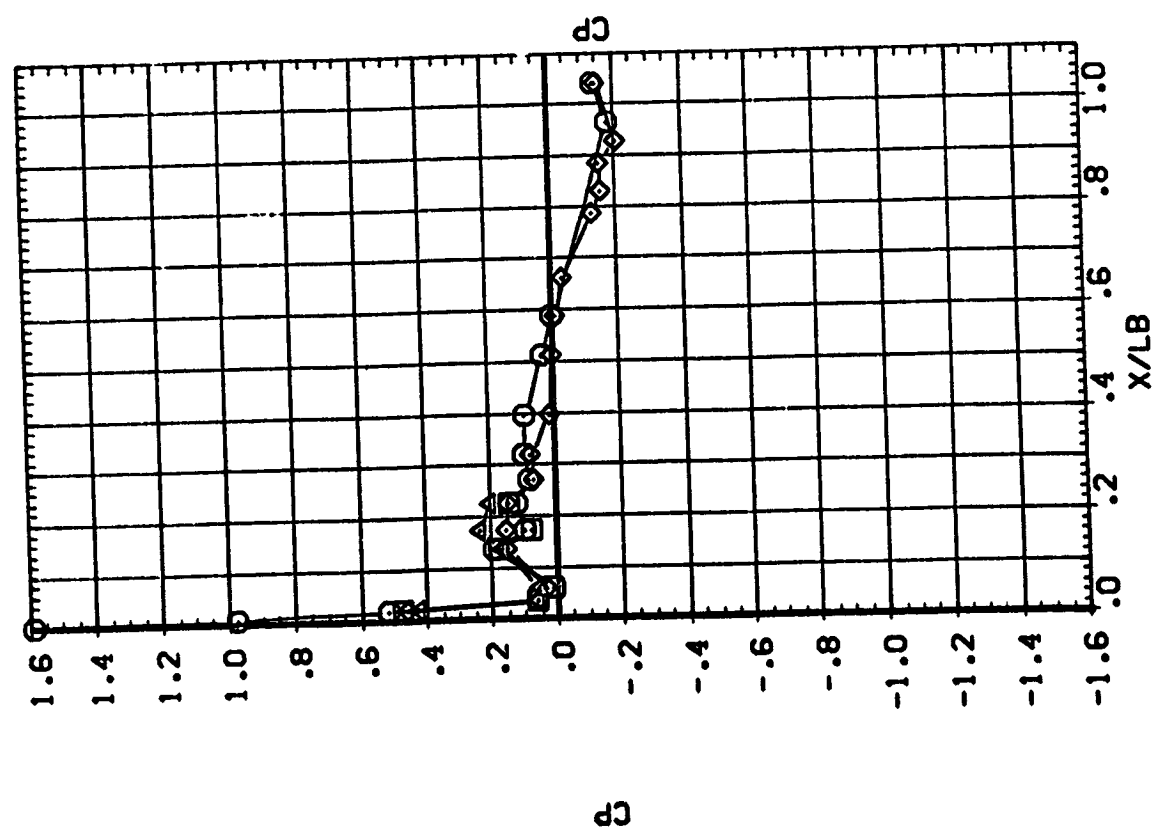
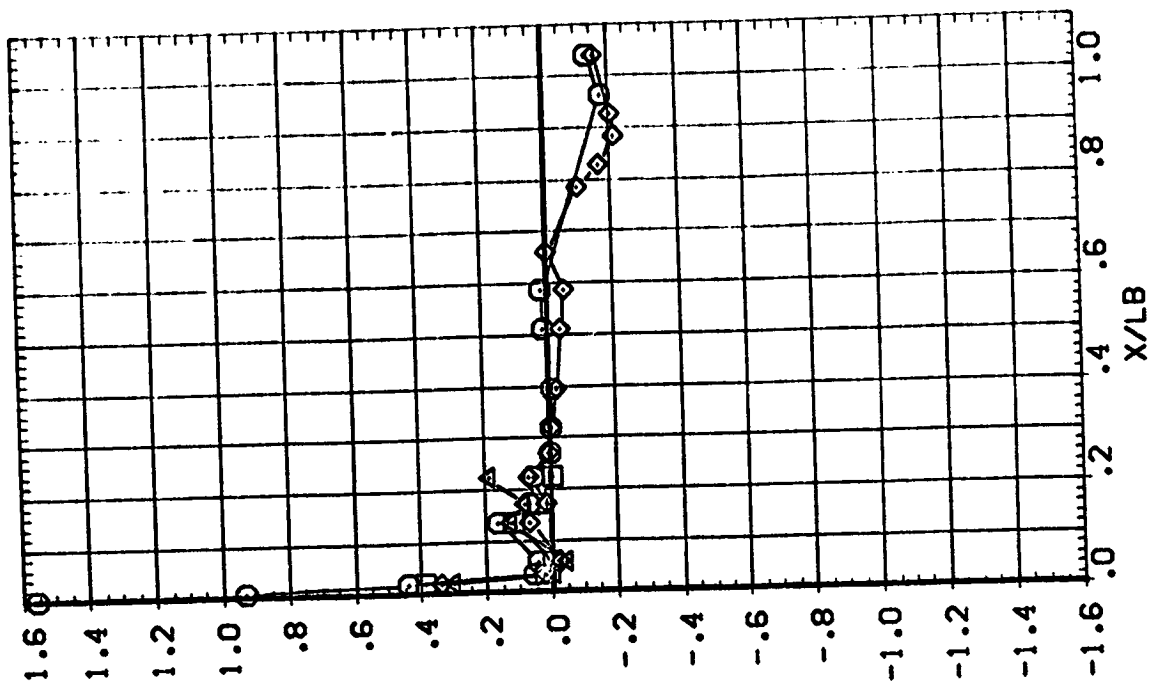
PHI 150.000
 165.000
 180.000
 BETAT -4.280
 -1.70
 MACH 2.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

ALPHAT
 RUDER
 RUOFLR
 -8.000
 .000
 .000
 .500
 .000
 .000

SYMBOL
 PHI
 BETAT
 MACH
 .000
 3.940
 2.000
 20.000
 40.000
 55.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

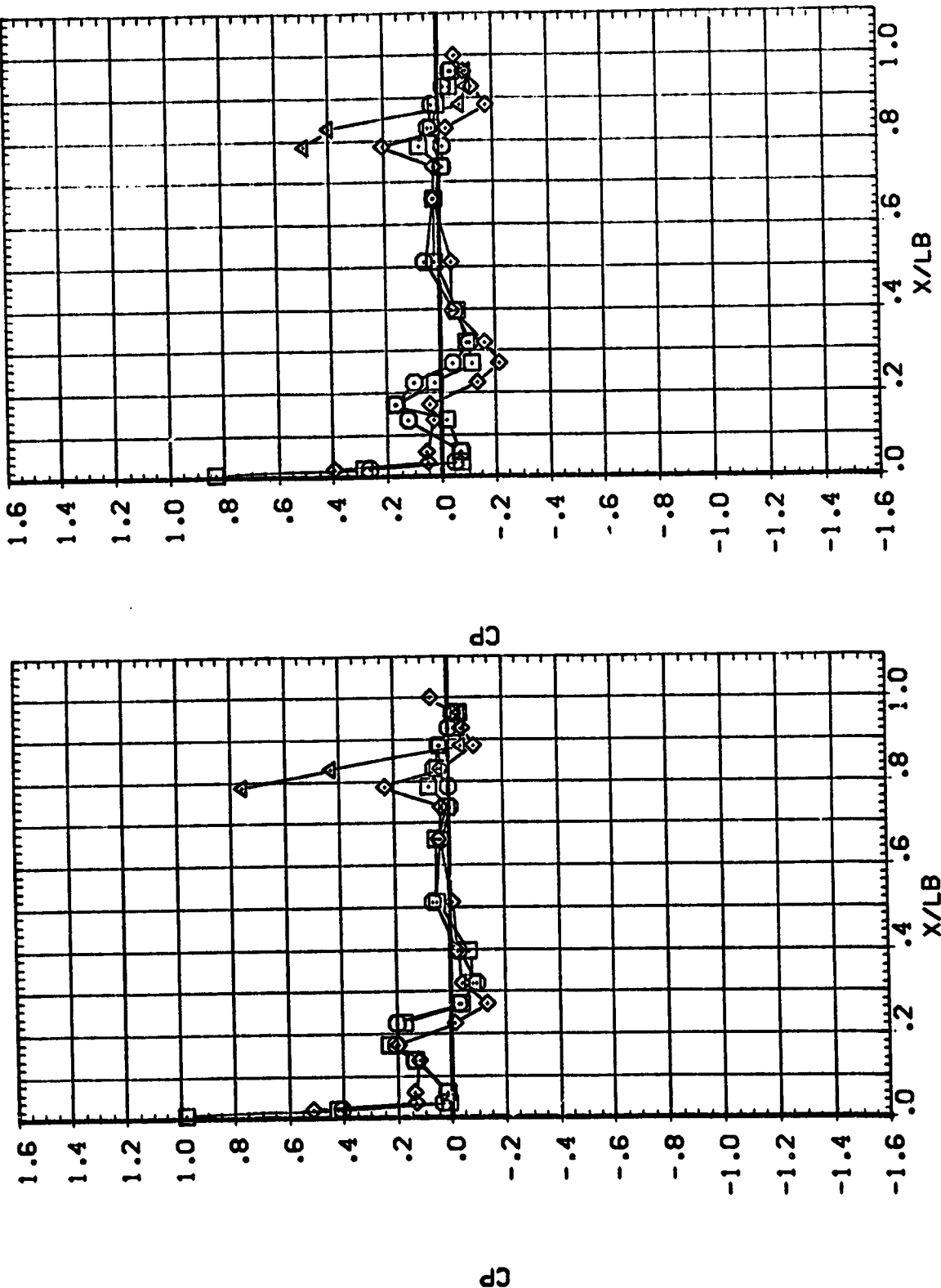
AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (R80B10)

SYMBOL
 ○
 □
 ◇
 △

PHI
 70.000
 30.000
 120.000
 135.000

BETAT MACH
 3.940 2.000
 8.050

PARAMETRIC VALUES
 ALPHAT -8.000
 RUDDER .000
 RUJFLR .000
 CRBINC .500
 ELEVON .000

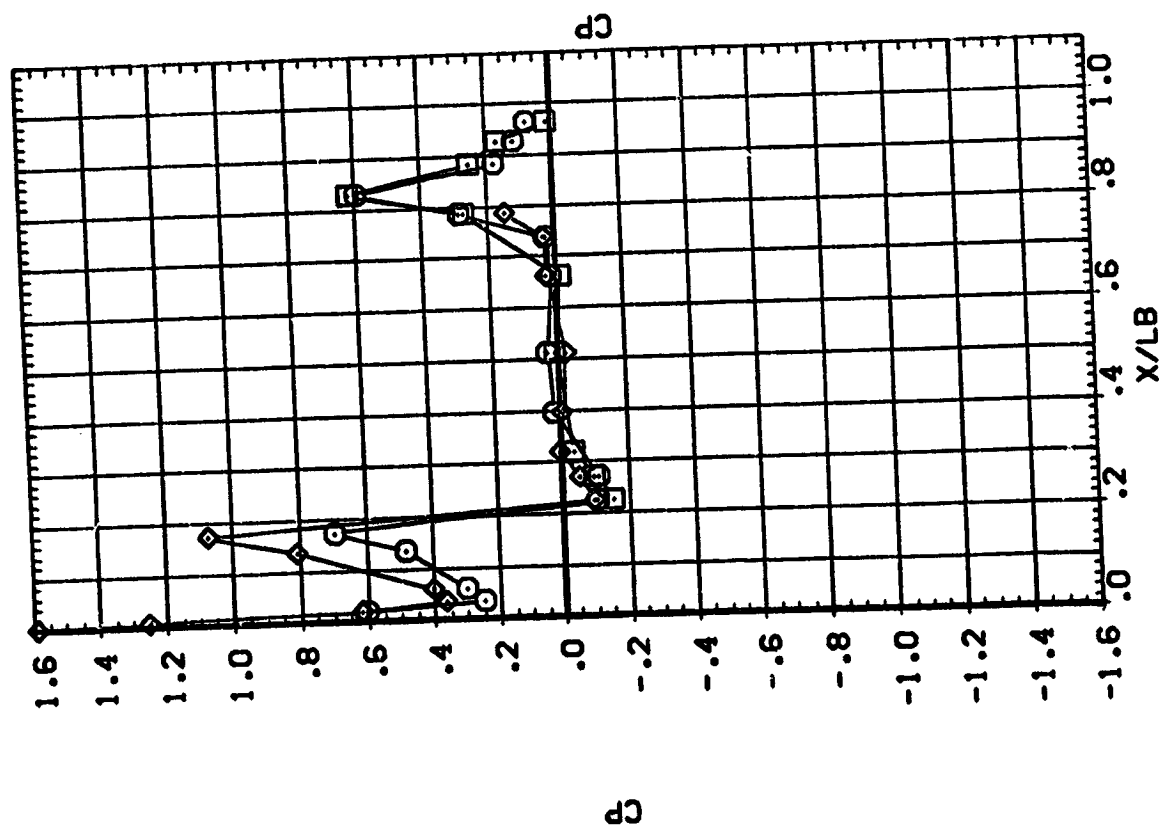
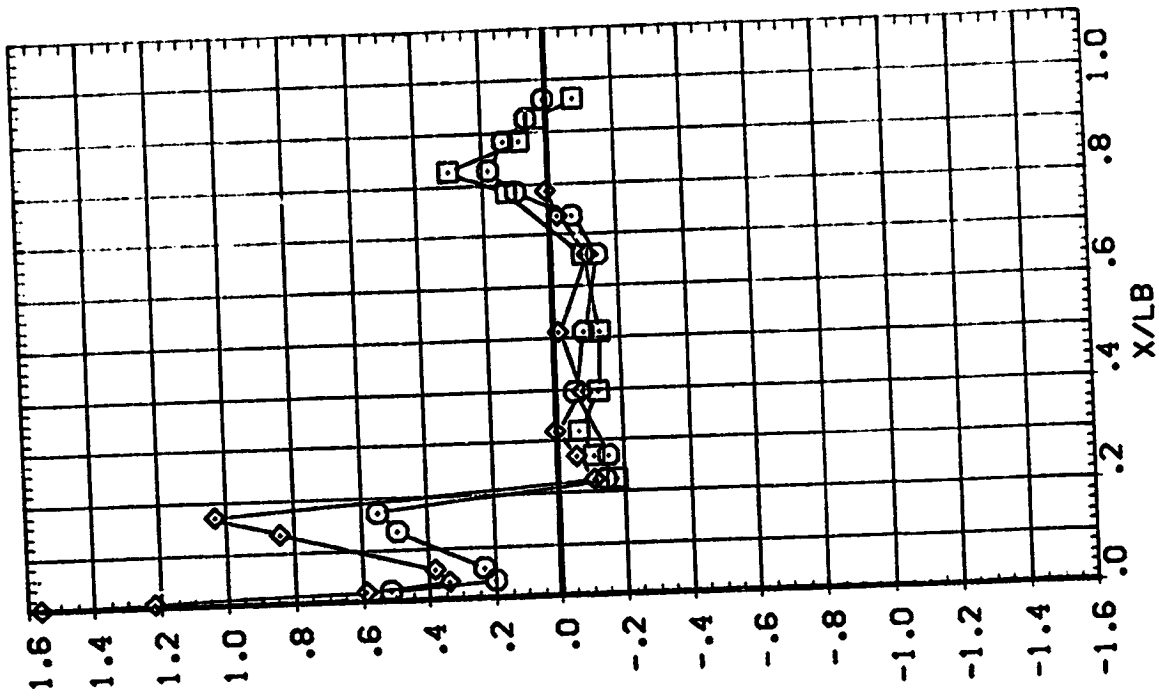


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

ELEVATION
 -8.000
 .000
 .000
 .500
 .000
 .000

ALPHAT
 RUDDER
 RUOFLR

PH1
 150.000
 165.000
 180.000
 BETAT
 3.940
 8.050
 MACH
 2.000

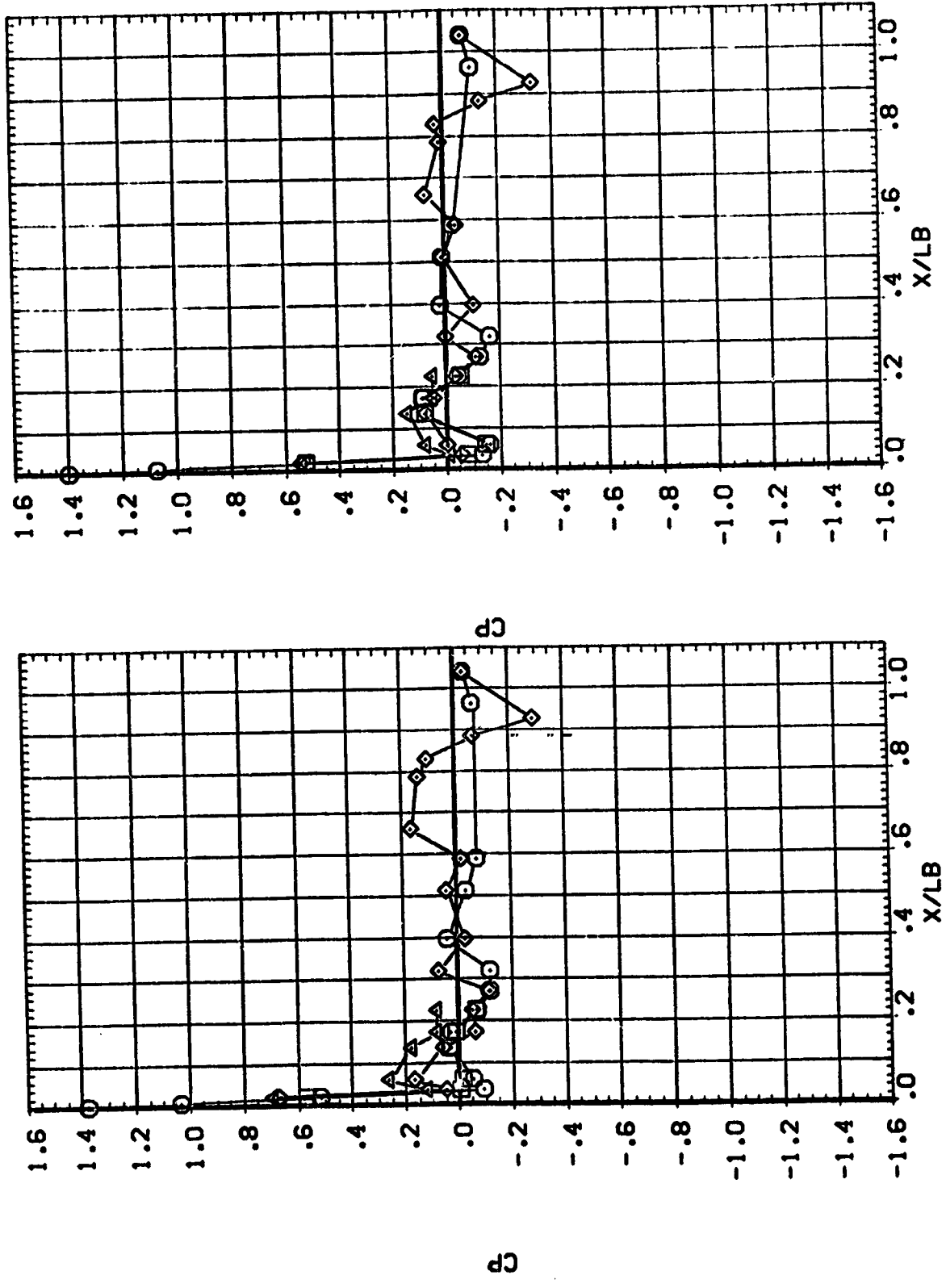


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

III

AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBOB13)

SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES
○	.000	-4.240	1.553	ALPHAT .000 ORBINC .500
□	20.000	-.140		RUDDER -.5.000 ELEVEN .000
◇	40.000			RJOF LR .000
△	55.000			



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

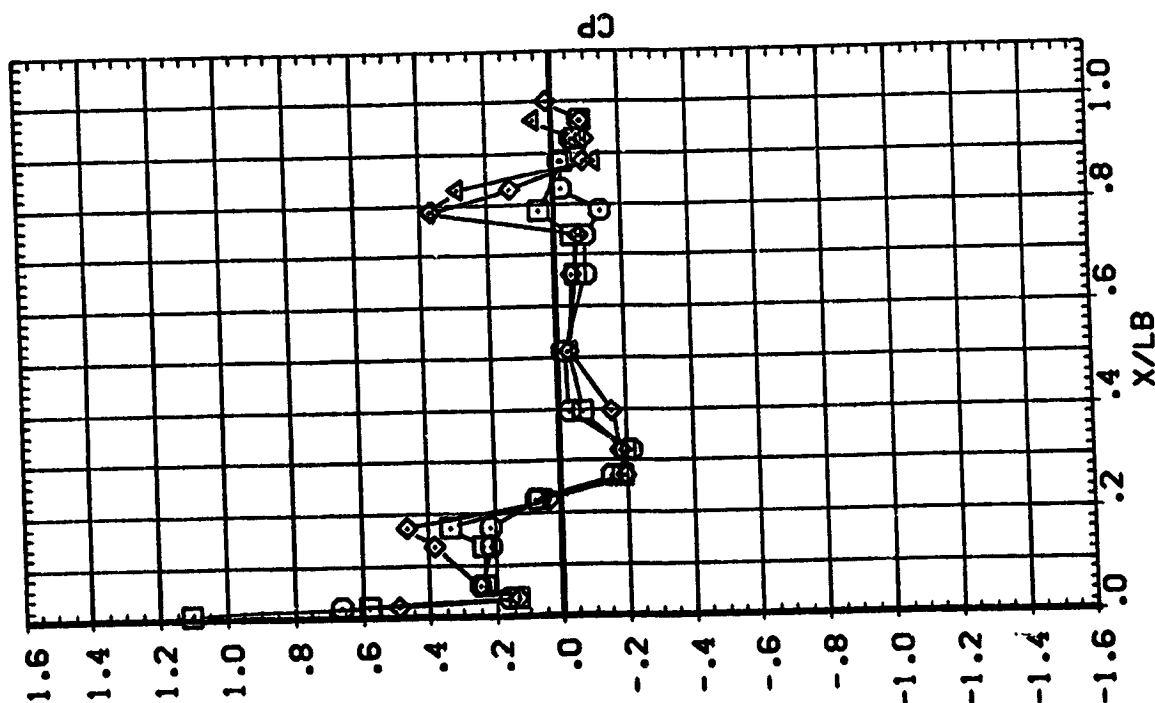
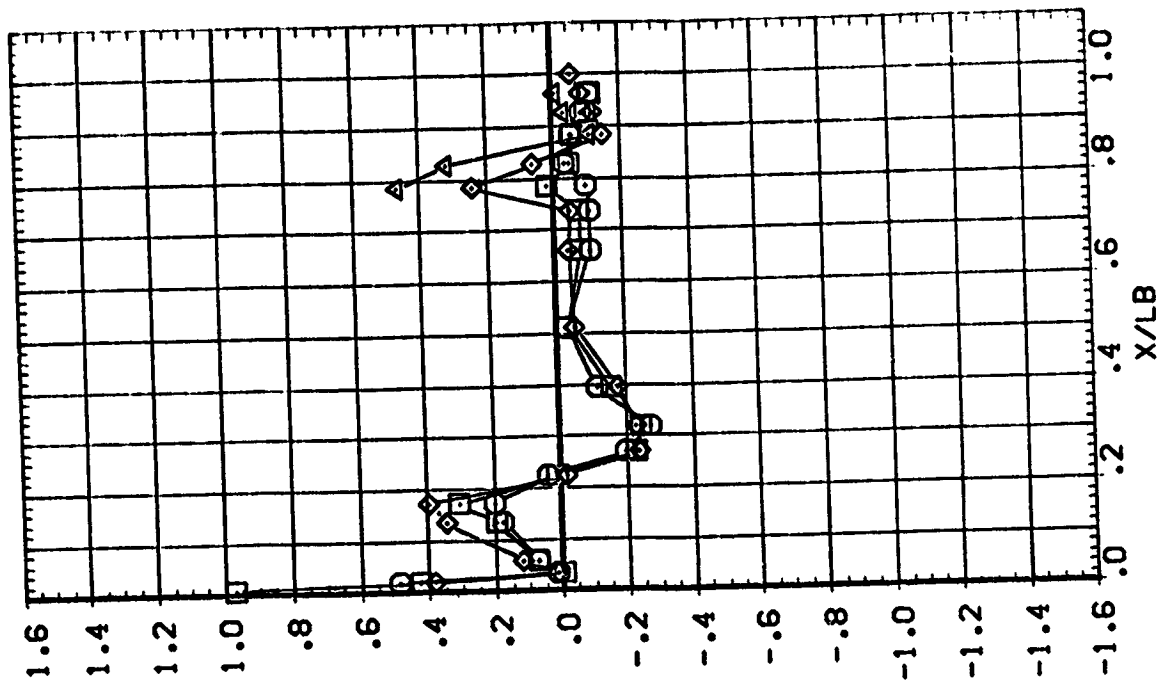
SYMBOL
 70.000
 90.000
 120.000
 135.000

PHI
 70.000
 90.000
 120.000
 135.000

BETAT
 -4.240
 -.140

MACH
 1.555

PARAMETRIC VALUES
 ALPHAT
 RUDER
 RUDFLR
 .000
 -15.000
 .000
 ORBINC
 ELEVON
 .500
 .000

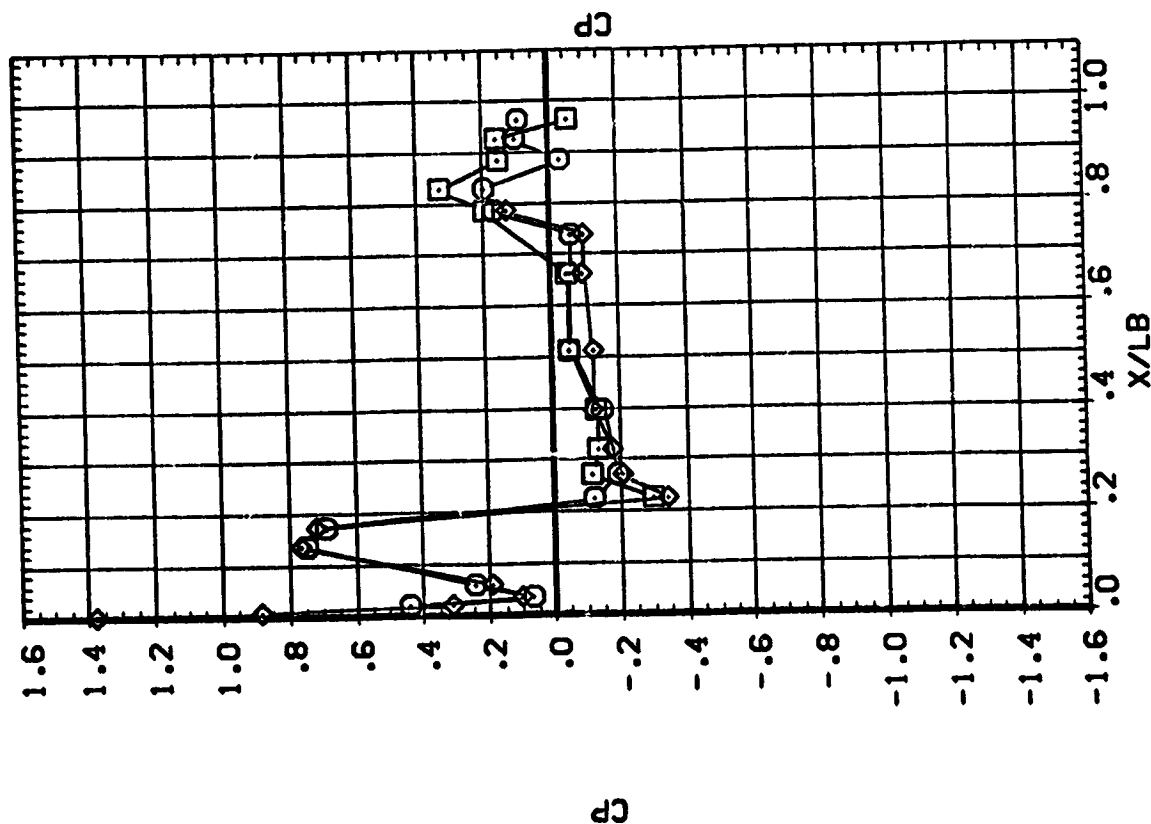
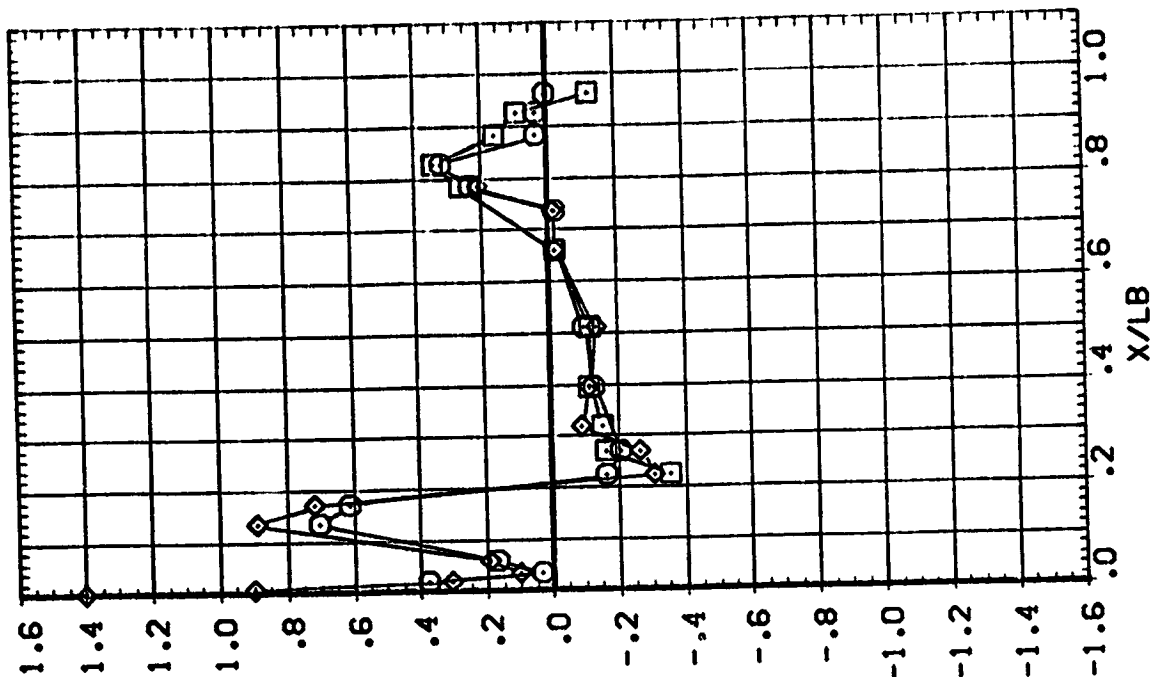


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RB0B13)

PARAMETRIC VALUES
 ALPHAT .000 GRBINC .500
 RJOER -15.000 ELEVEN .000
 RJOFLR .000

SYMBOL PHI BETAT MACH
 150.000 -4.240 1.555
 165.000 -.140
 180.000



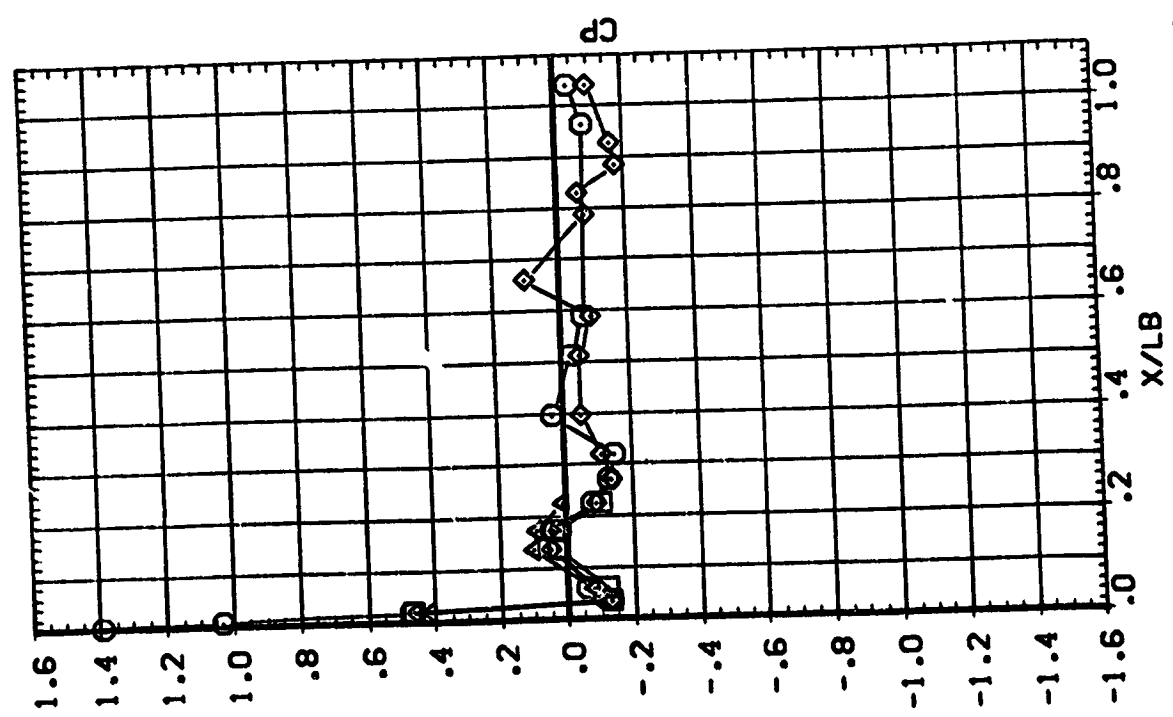
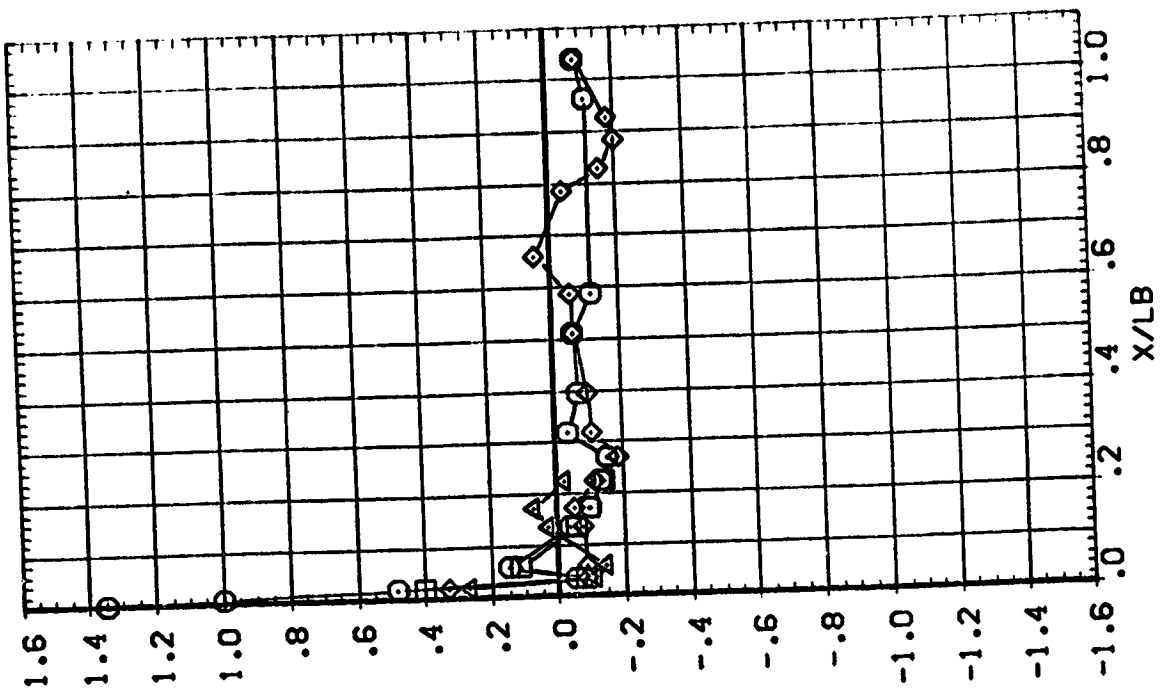
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

SYMBOL
 ○ □ ◇ △

PHI
 .000
 20.000
 40.000
 55.000

BETAT MACH
 3.940 1.555
 8.030

PARAMETRIC VALUES
 .000 .000 .000
 ALPHAT ORBITINC
 RUDDER ELEVON
 RUOFLR .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (R80813)

PARAMETRIC VALUES

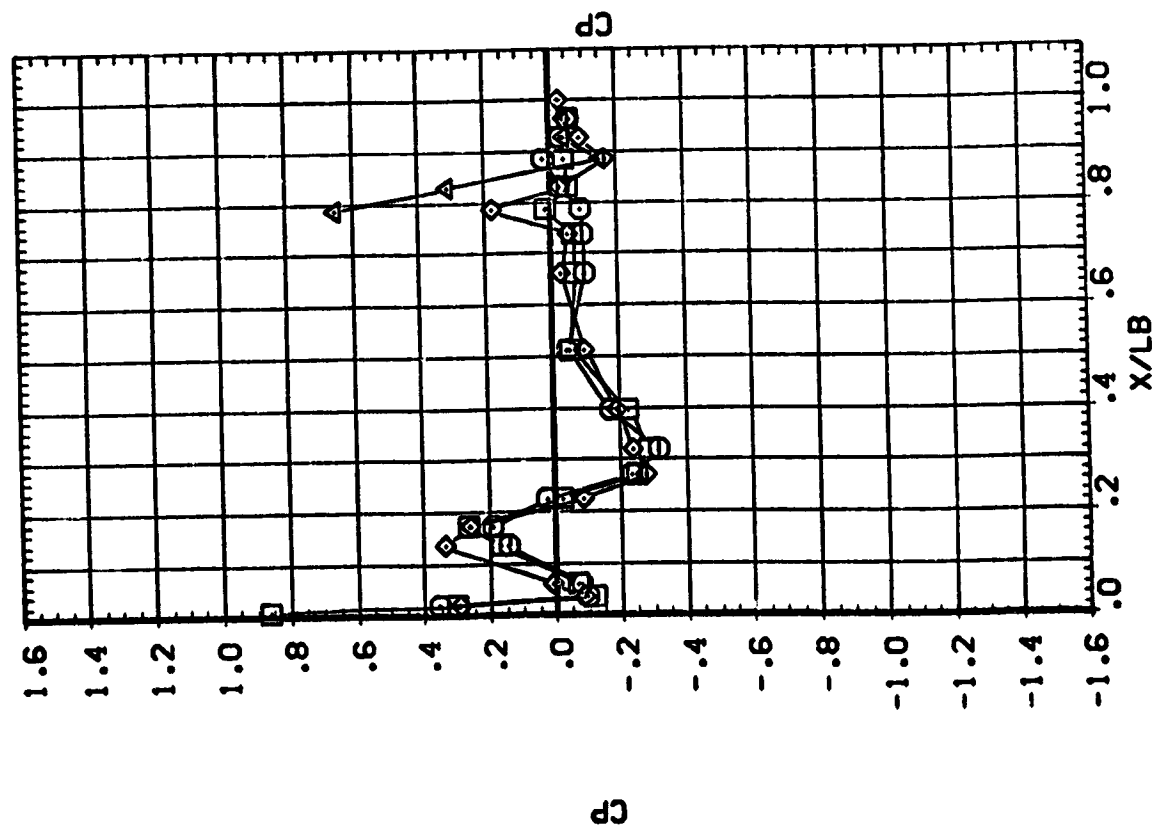
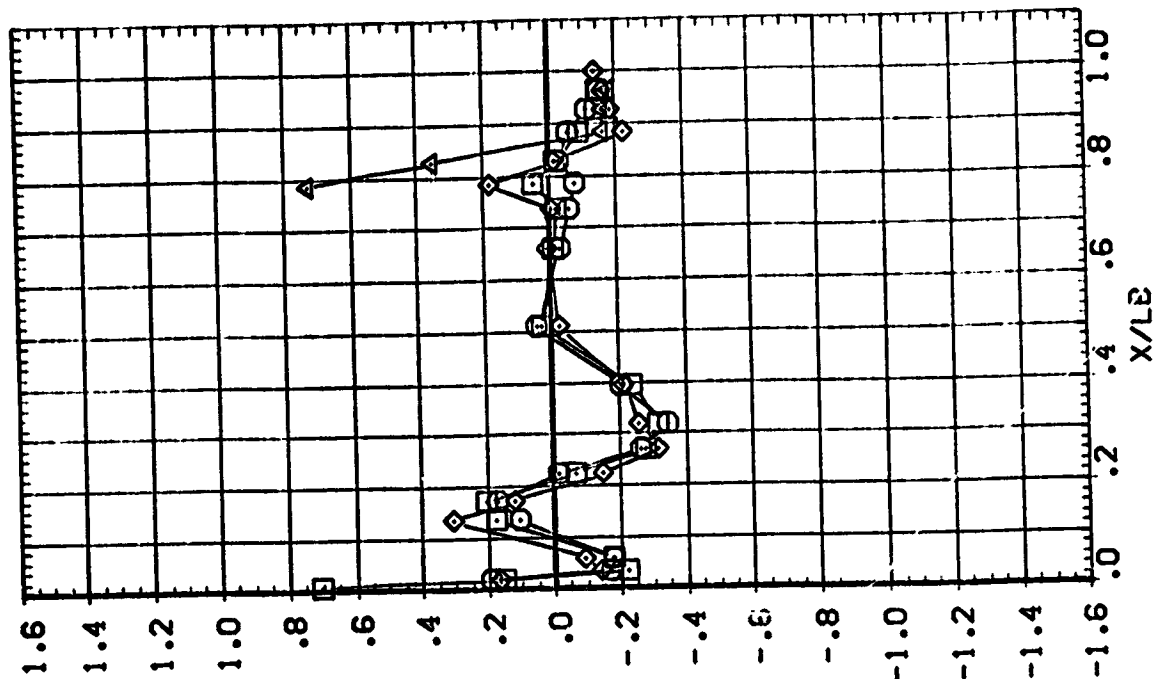
ALPHAT	DRBINC	.500
RUDER	ELEVON	.000
RUDLR		.000

PHI

BETAT	MACH
70.000	1.555
90.000	8.030
120.000	
135.000	

SYMBOL

○	
□	
◇	
△	



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (R80B13)

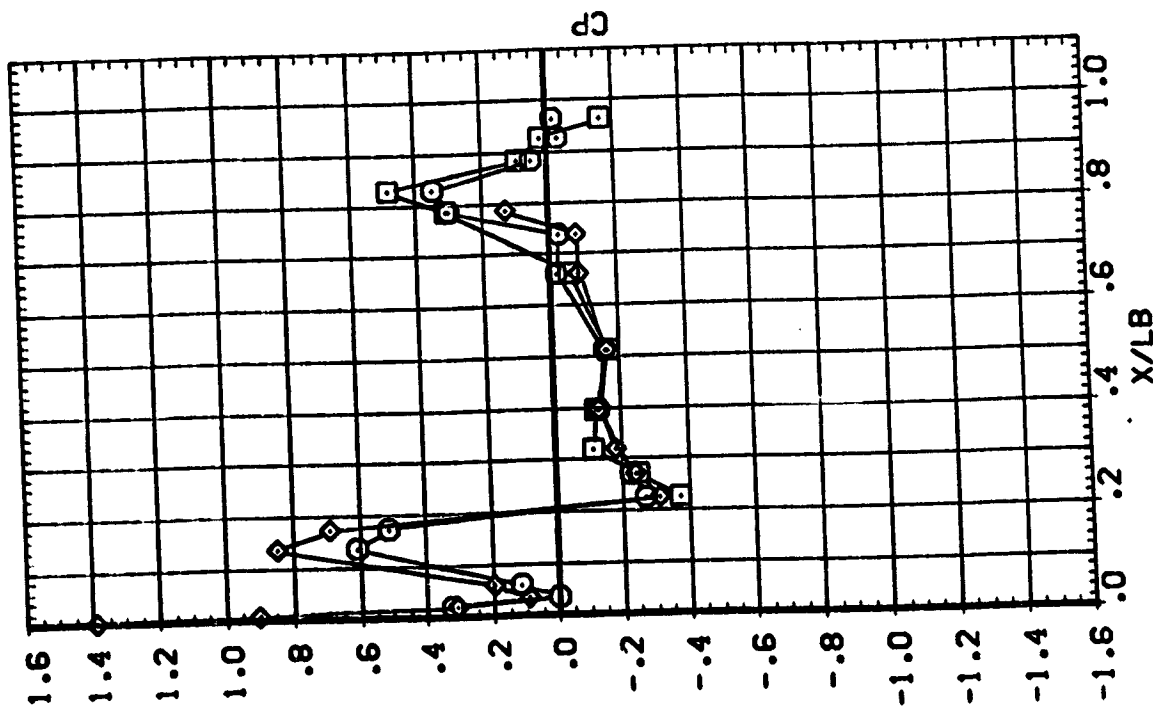
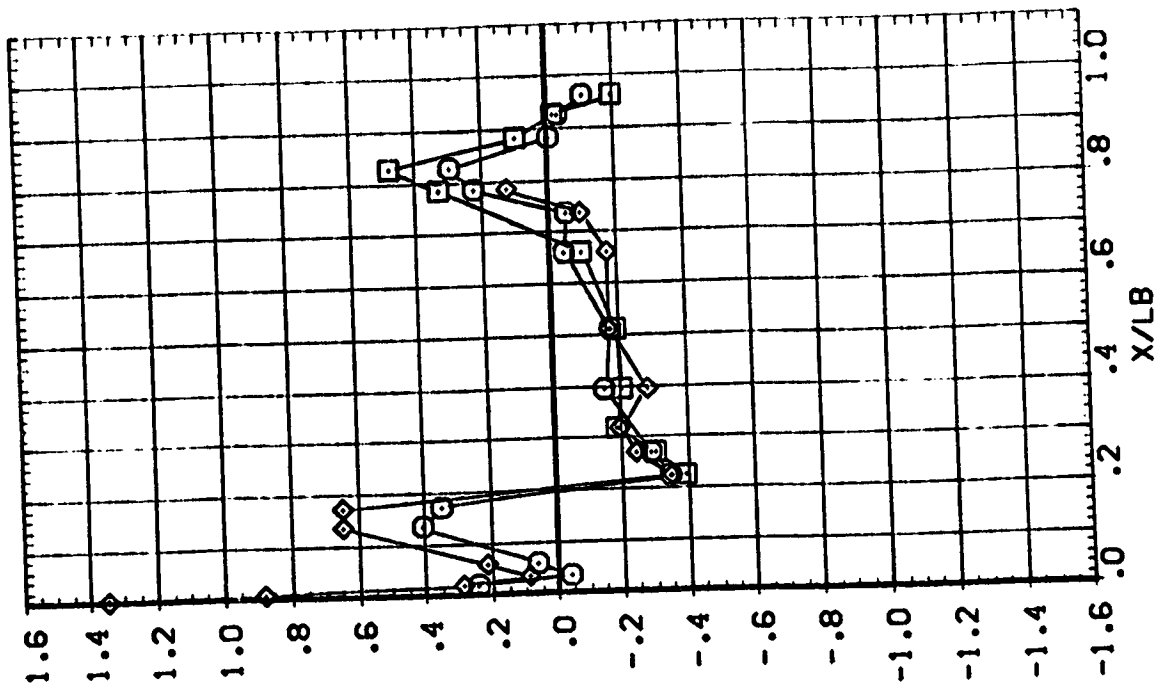
SYMBOL
 ○ □ ◇

PM1
 150.000
 165.000
 180.000

BETAT
 3.940
 8.030

MACH
 1.555

PARAMETRIC VALUES
 ALPHA1 .000 ORBINC .500
 RUDDER -15.000 ELEVON .000
 RUOFLR .000

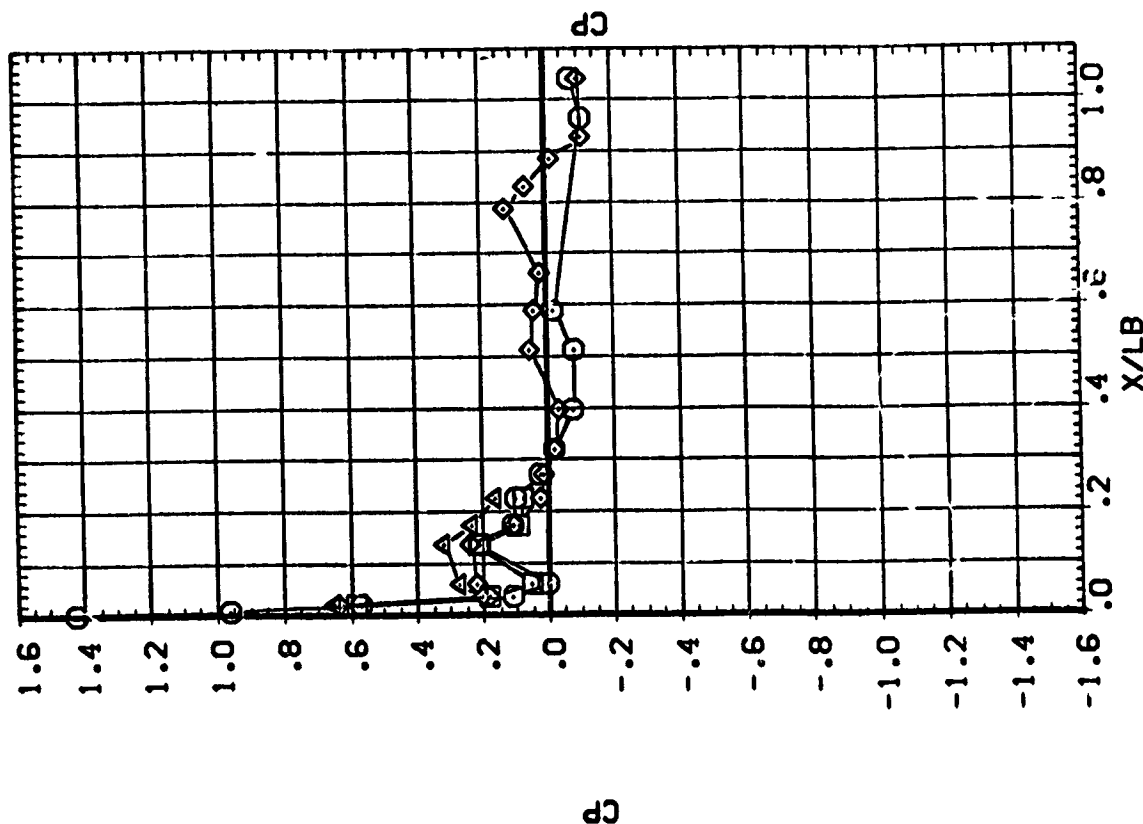
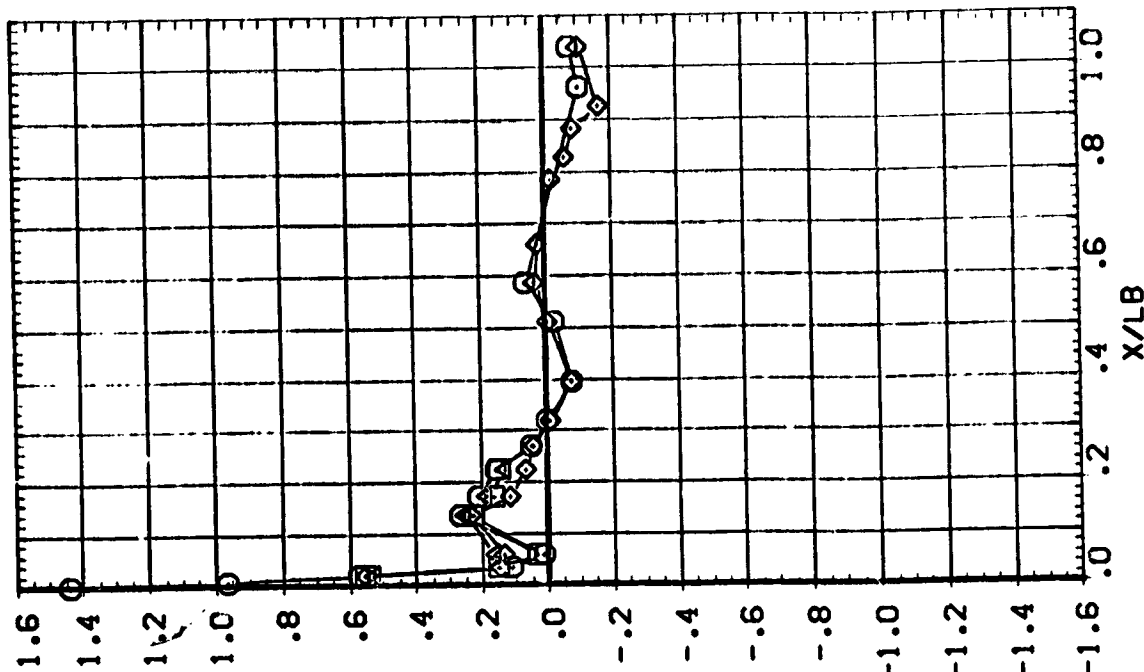


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (R80913)

PARAMETRIC VALUES
 ALPHAT .000 ORBINC .500
 RUDDER -15.000 ELEVEN .000
 RUOFLR .000

PHI .000 MACH 2.000
 20.000
 40.000
 55.000
 BETAT -4.220
 -.140



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

SYMBOL
 ○ □ ◇ △

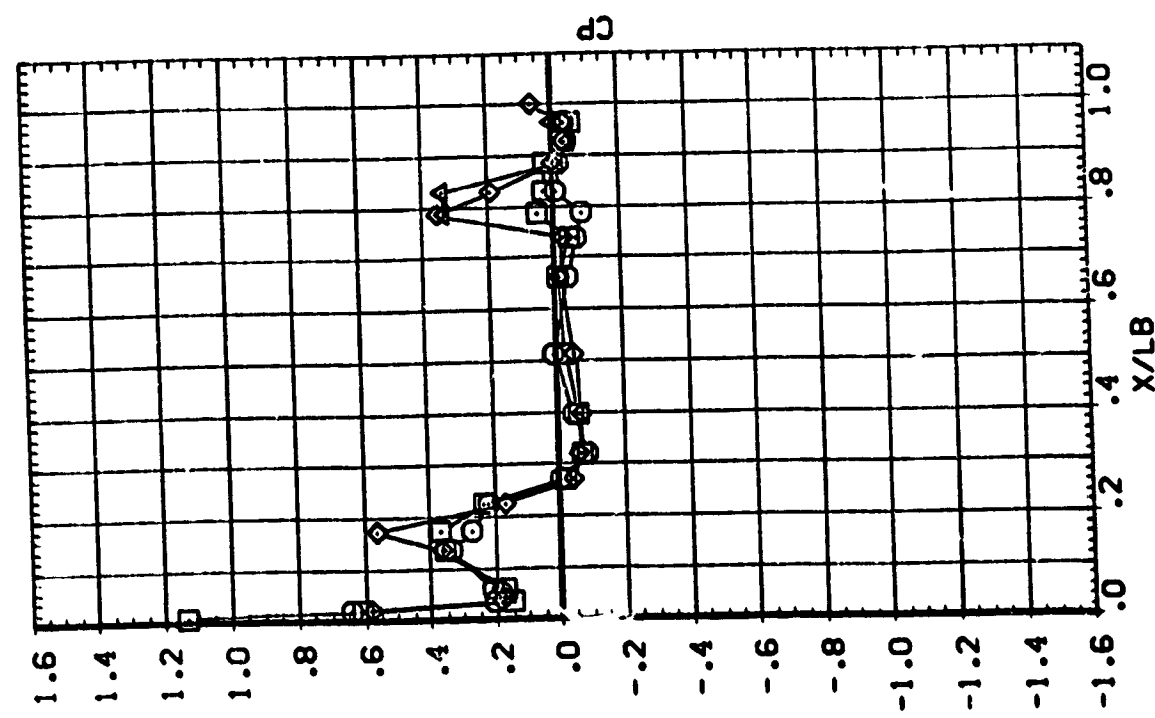
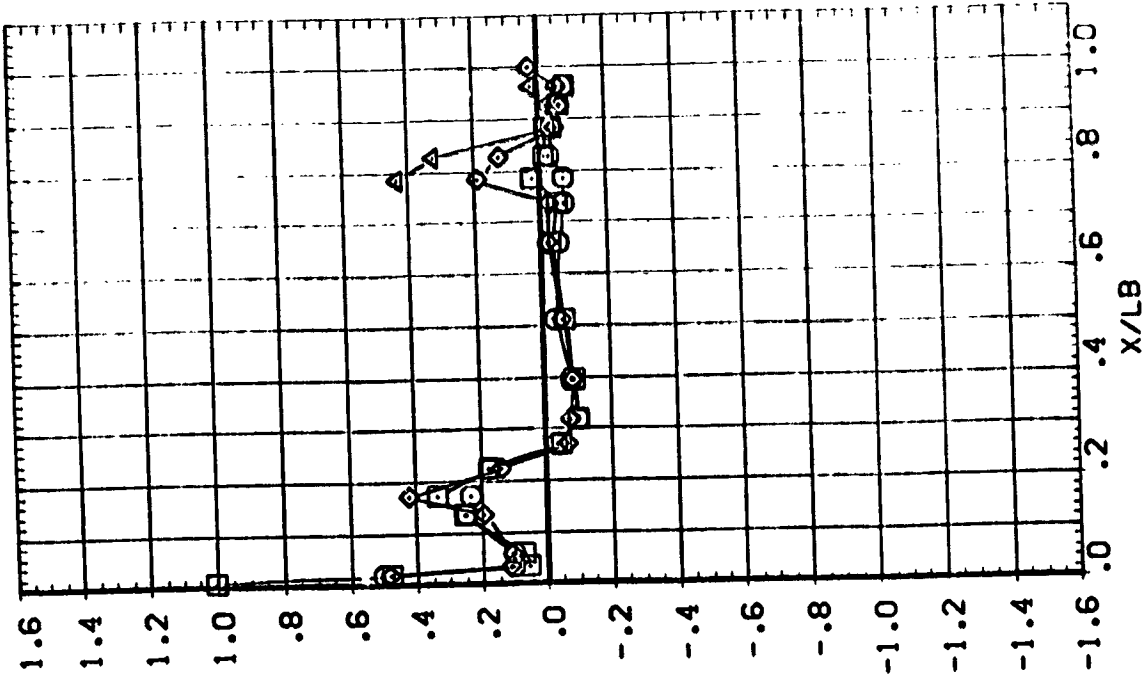
PHI
 70.000
 90.000
 120.000
 135.000

BETAT
 -4.220
 -.140

MACH
 2.000

ALPHAT
 RUDDER
 RUDDLR

PARAMETRIC VALUES
 .000 .500
 .000 .000
 -15.000 .000
 .000 .000

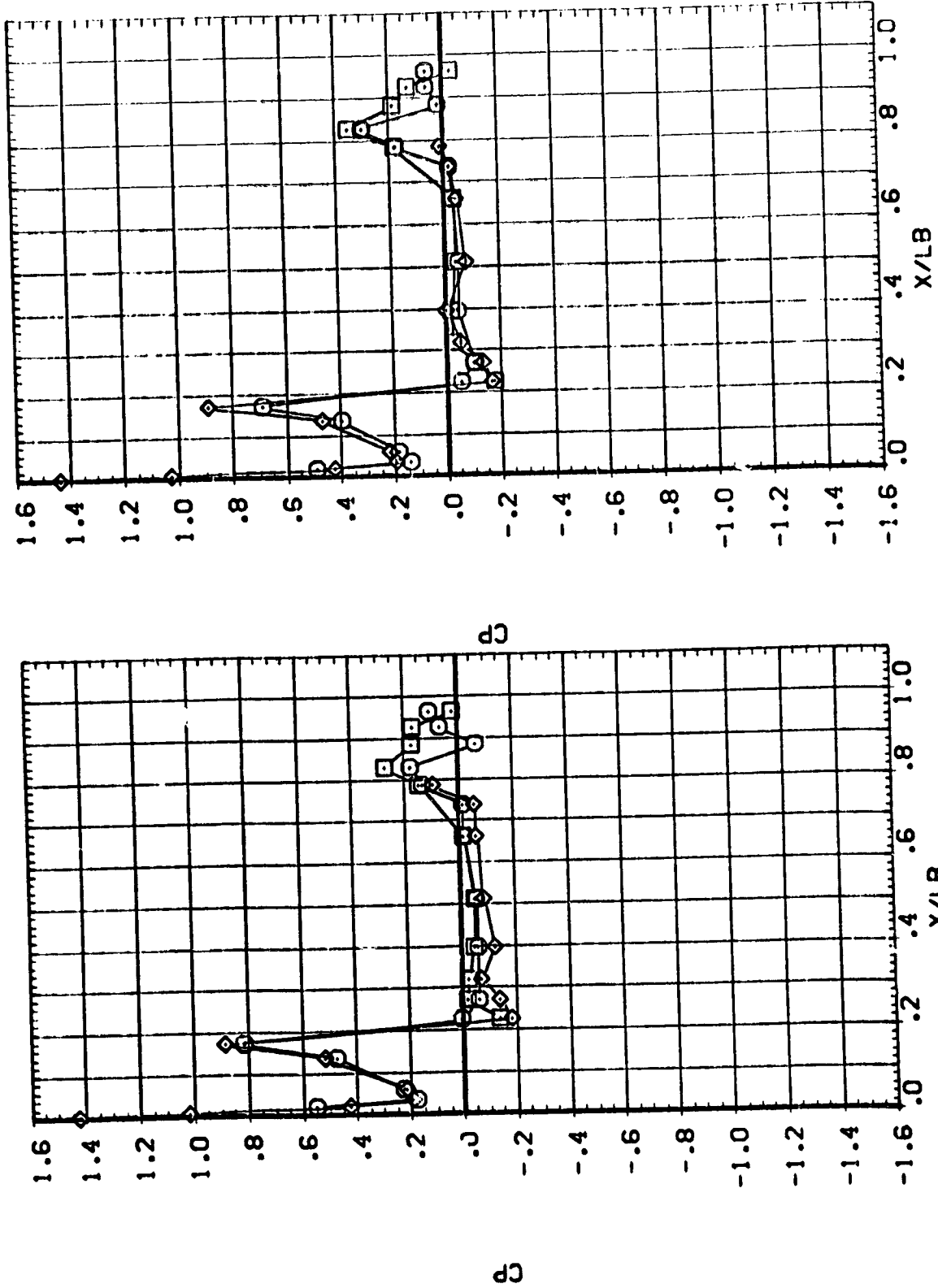


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

III

AMES 97-707 1A9 02A + S3 + 19 ORBITER FUSELAGE (R80B13)

SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES
○	150.000	-4.220	2.000	ALPHAT .000
□	165.000	-4.140		RJ001C .000
◇	180.000			ELEVON -15.000
				RJ0FLR .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

SYMBOL
○
□
◇
△

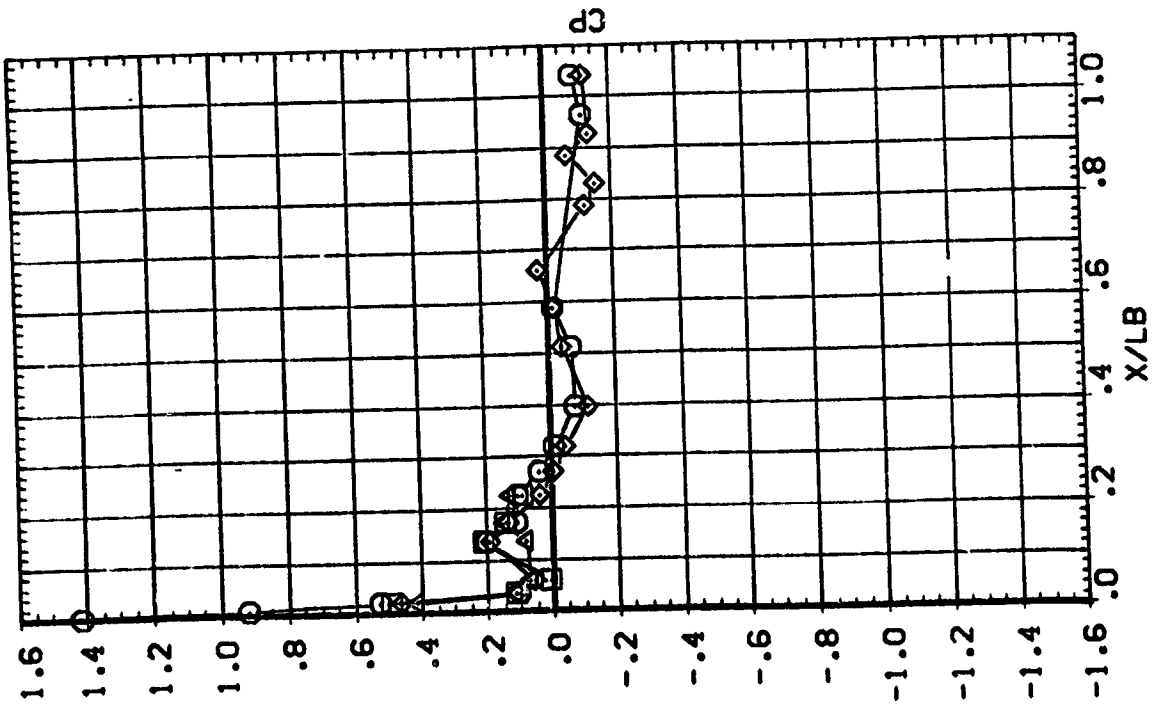
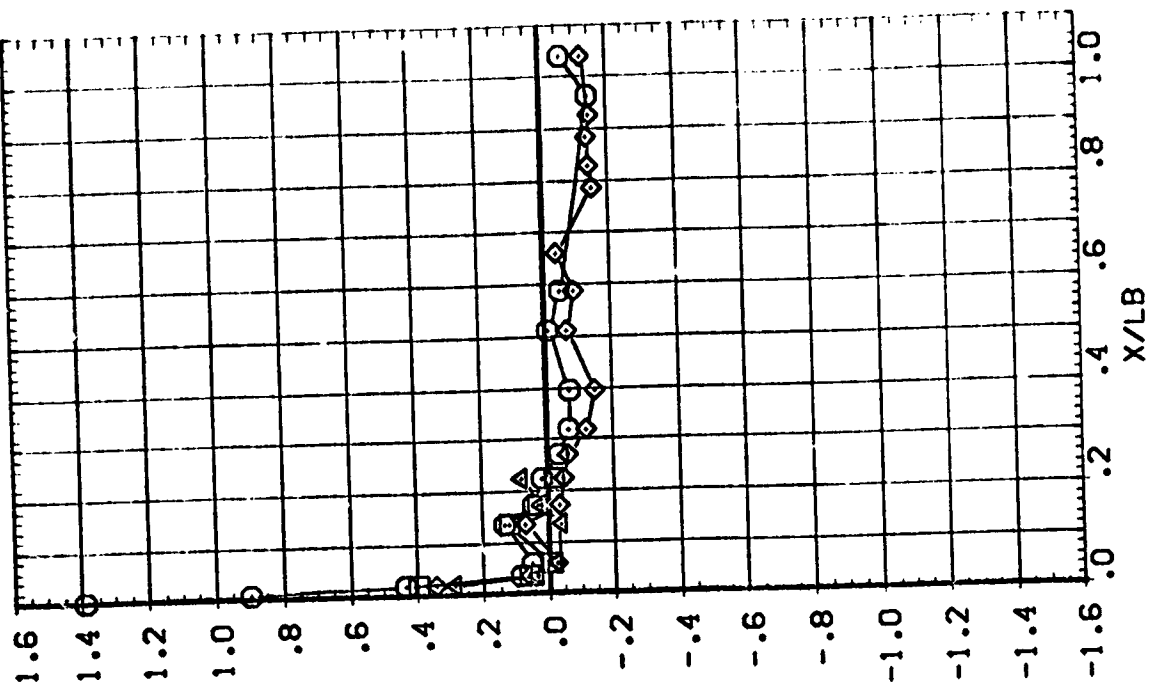
PHI .000
20.000
40.000
55.000

BETAT 3.930
8.020

MACH 2.000

PARAMETRIC VALUES
ALPHAT .000
RUDDER -15.000
RUDFLR .000

CRBINC .500
ELEVON .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

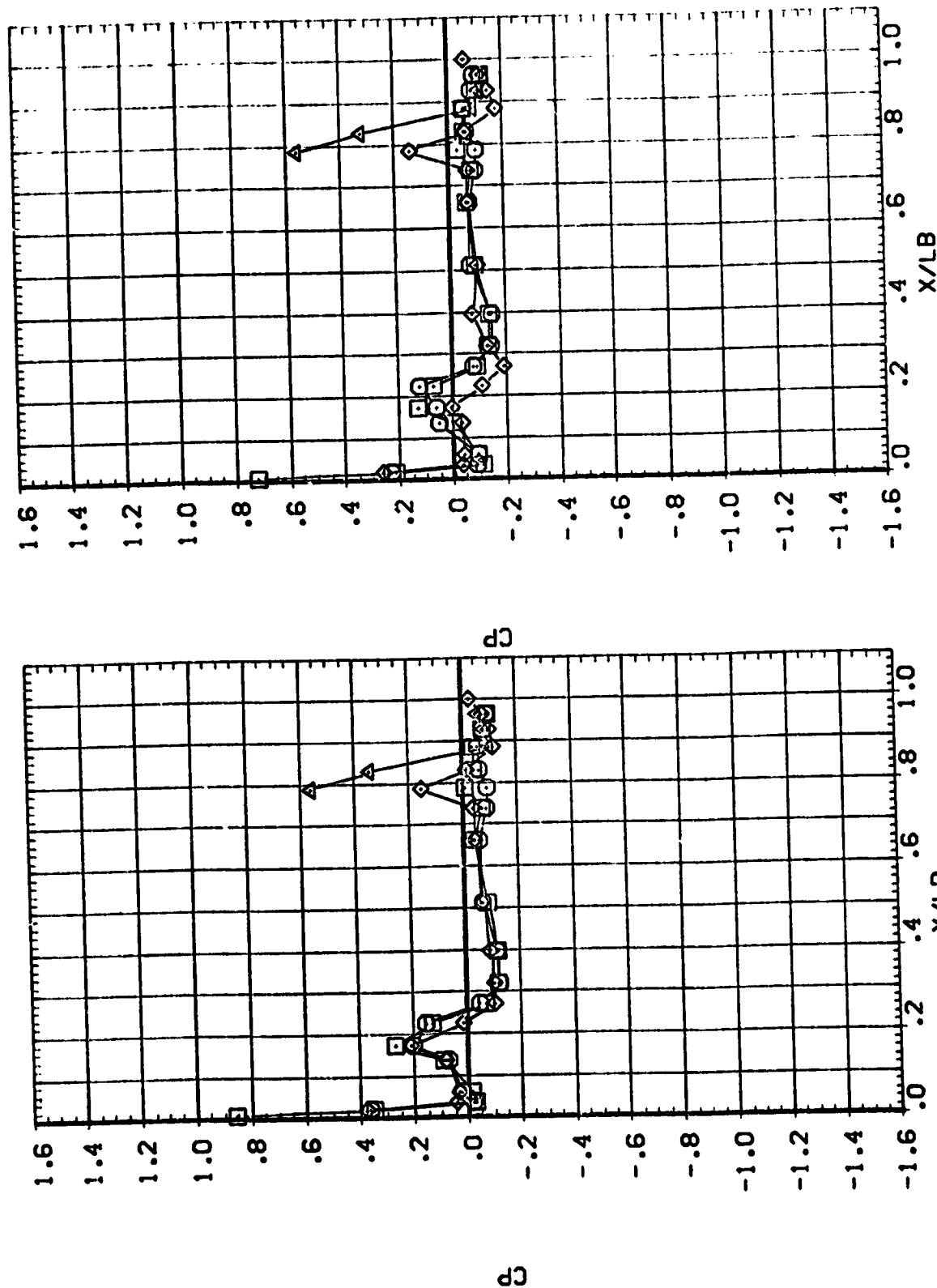
(RB0813)

SYMBOL ○ □ ◇ △

PHI
70.000
90.000
120.000
135.000

BETAT	MACH
3.930	2.000
8.020	

PARAMETRIC VALUES	
ALPHAT	.000
RUDDER	-15.000
RUDFLR	.000
	.000
	.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

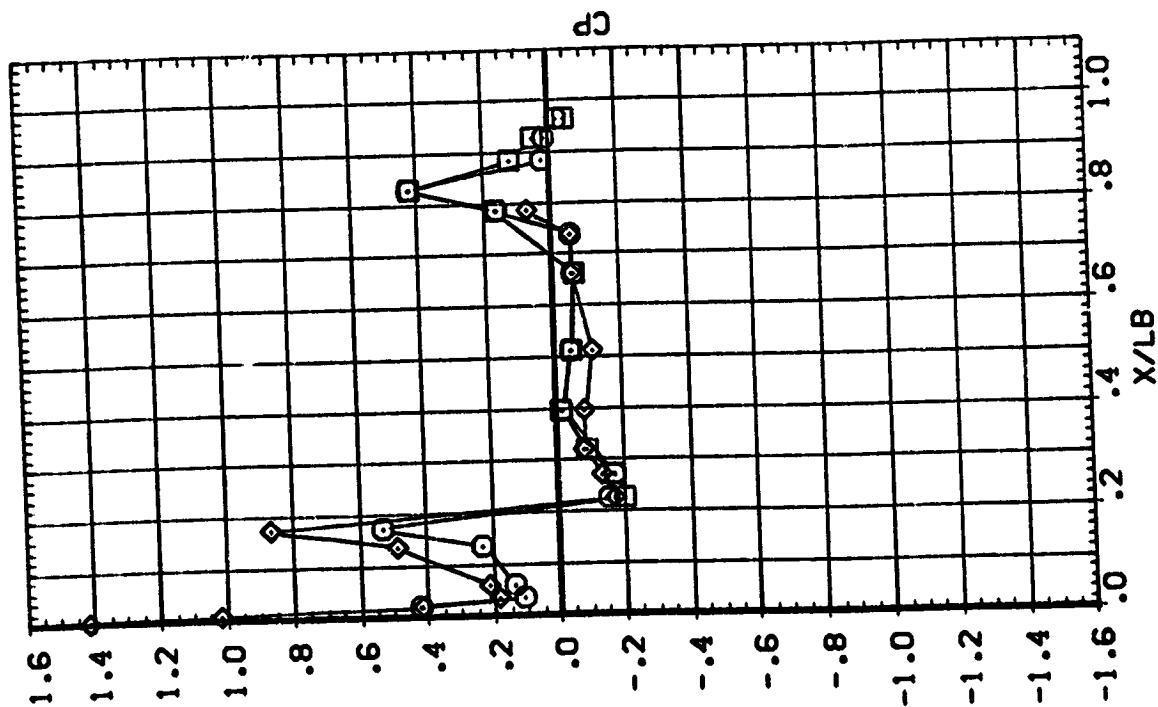
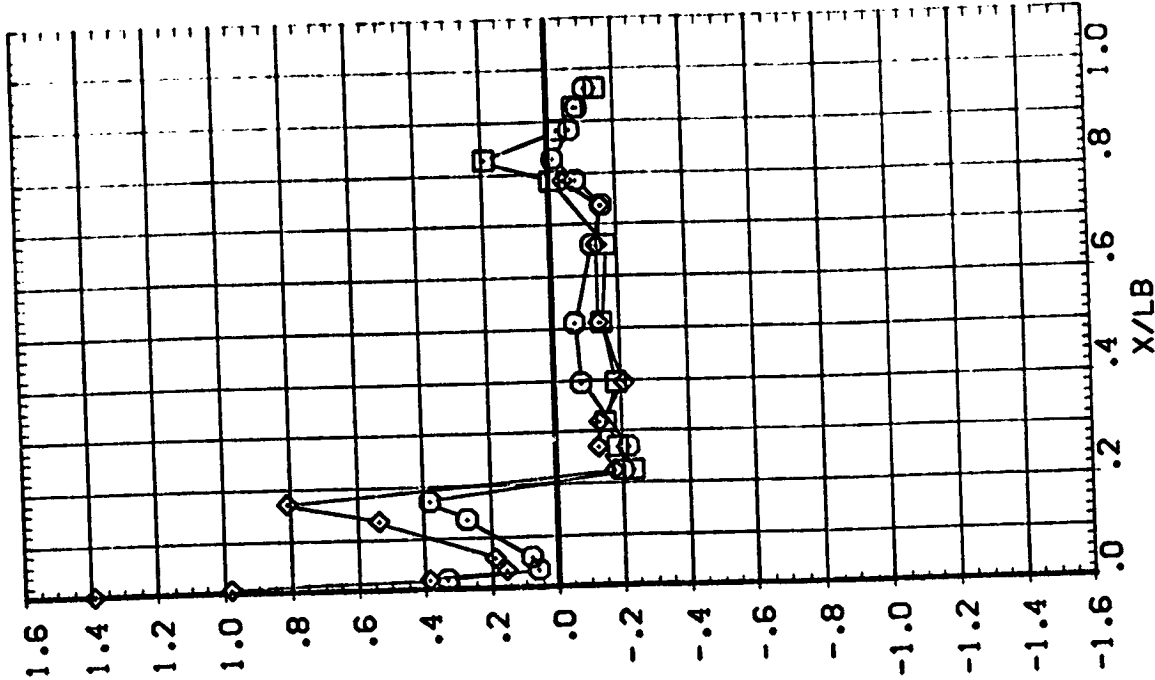
SYMBOL
 150.000
 165.000
 180.000

PHI
 150.000
 165.000
 180.000

BETAT
 3.930
 8.020

MACH
 2.000

PARAMETRIC VALUES
 ALPHAT
 RJOER
 RJOFLR
 .000
 -15.000
 .000
 DRBINC
 ELEVON
 .500
 .000



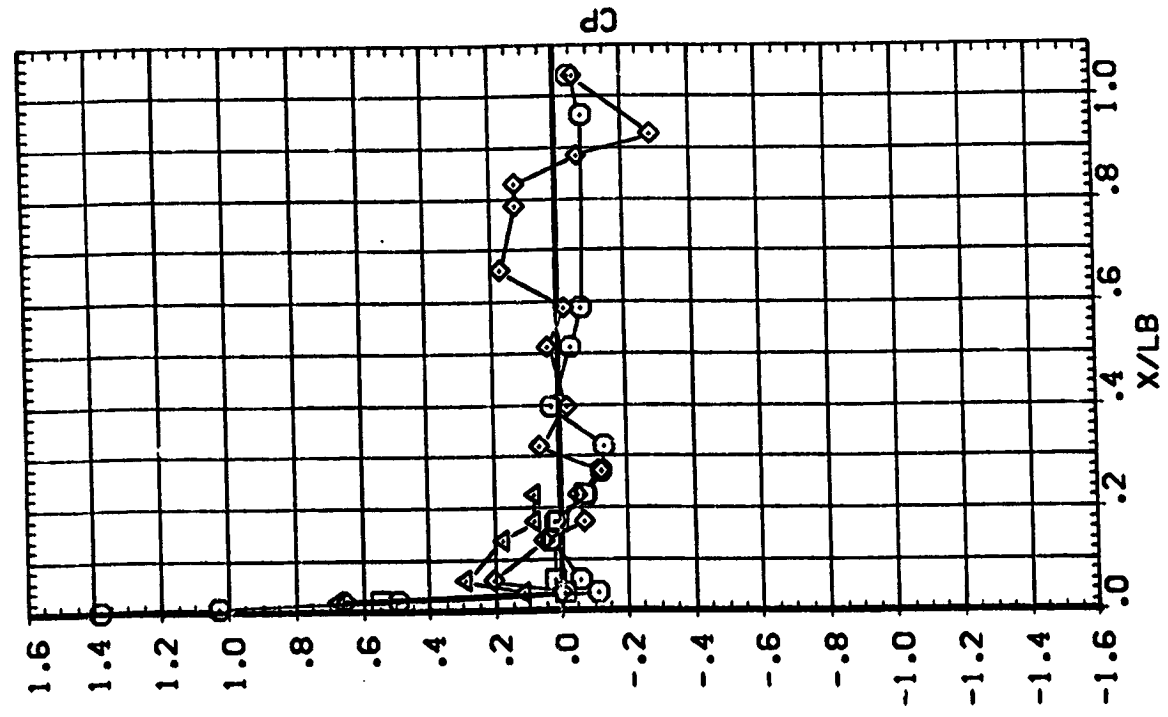
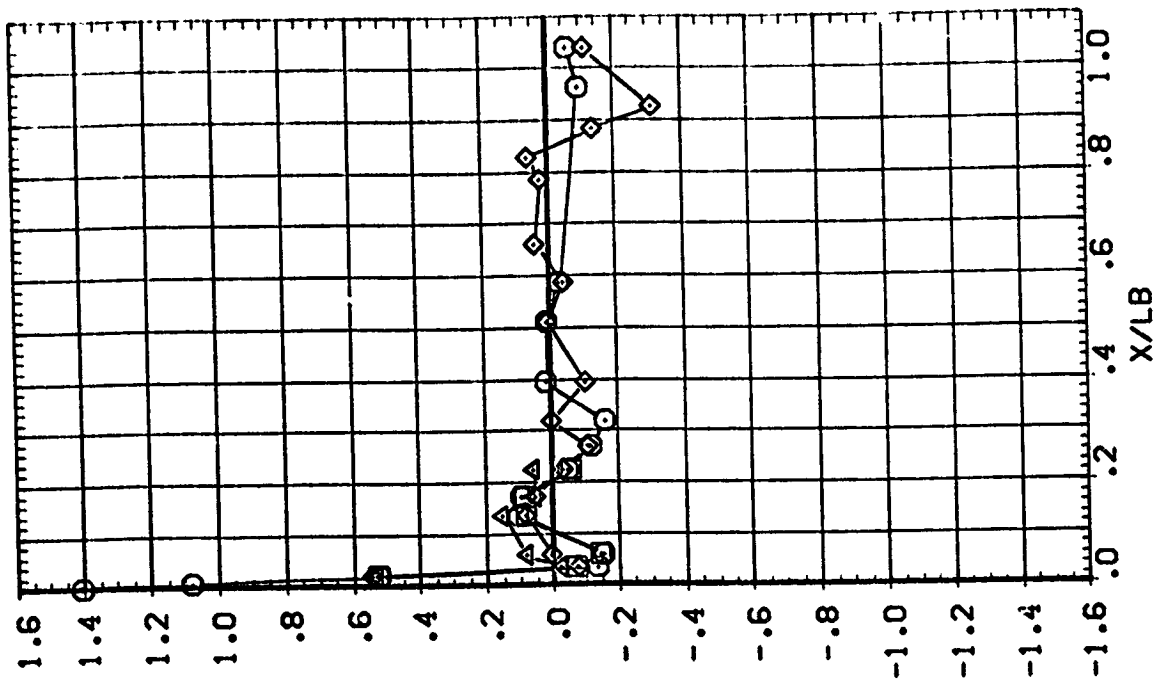
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

SYMBOL
 ○ □ ◇ △

PHI
 .000
 20.000
 40.000
 55.000

BETAT MACH
 -4.240 1.555
 -.140

PARAMETRIC VALUES
 ALPHAT .000 CRBINC .000
 RUDDER -10.000 ELEVGN .000
 RUJFLR .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

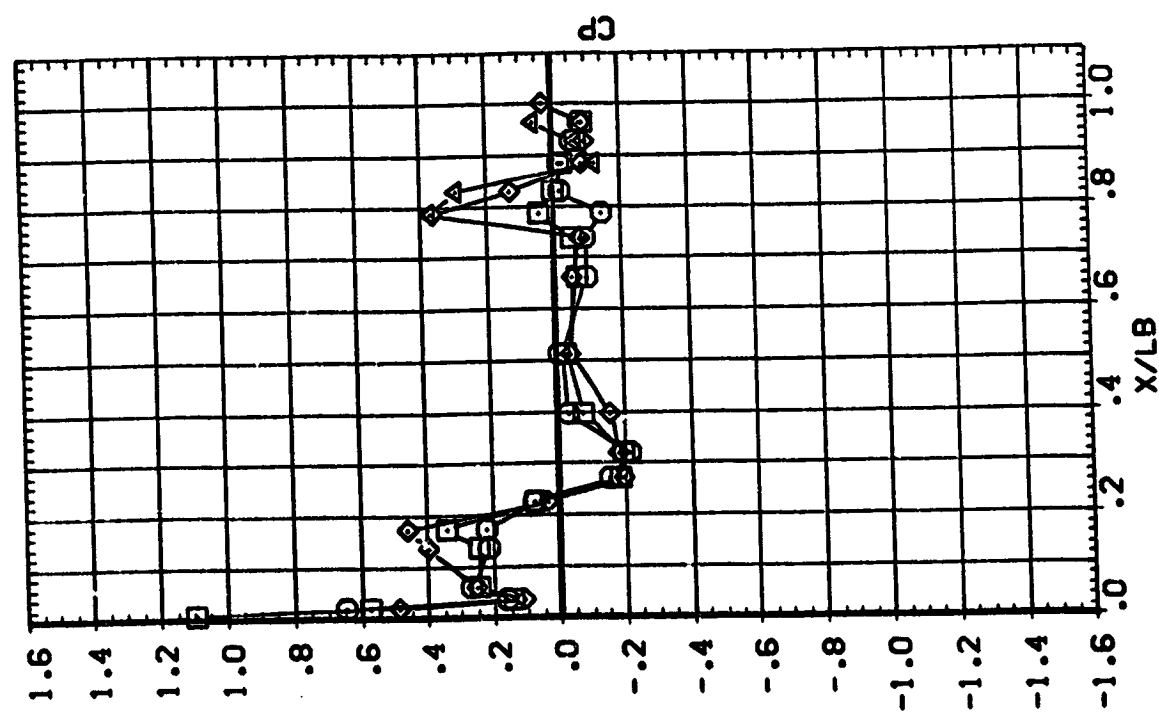
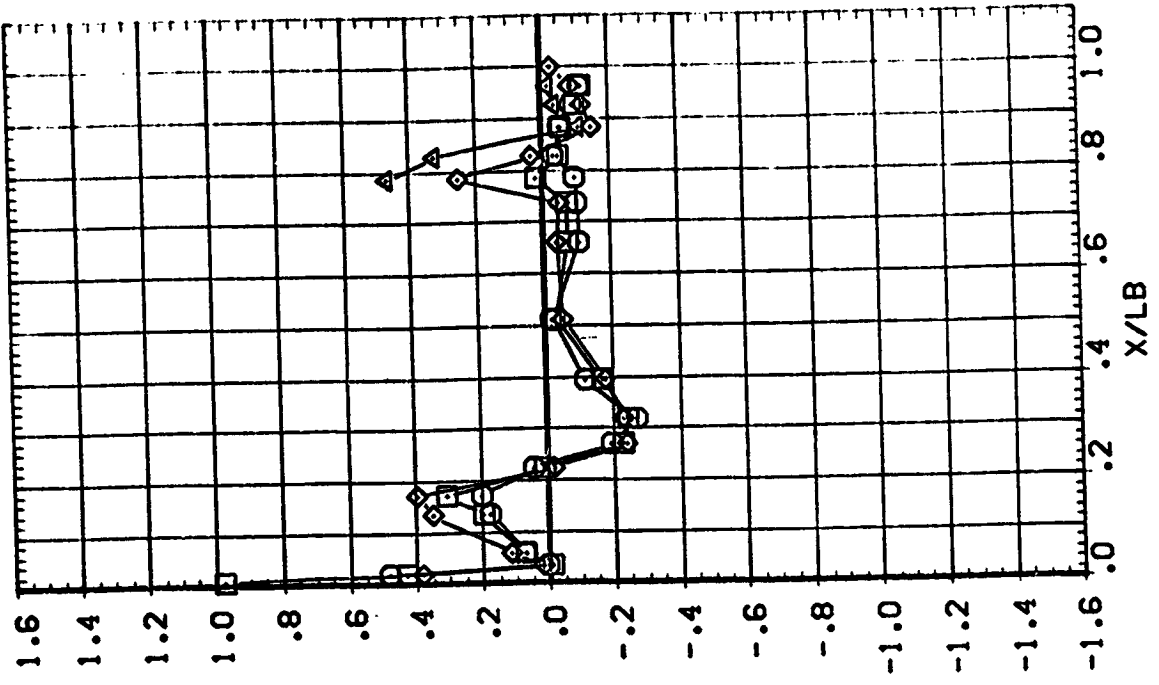
SYMBOL
 ○
 □
 ◇
 △

PHI
 70.000
 90.000
 170.000
 135.000

BETAT
 -4.240
 -.140

MACH
 1.555

PARAMETRIC VALUES
 ALPHAT .000 ORBINC .000
 RUDDER -10.000 ELEVEN .000
 RUOFLR .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

III

AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RB0B19)

PARAMETRIC VALUES
 .000 .000 .000
 .000 .000 .000
 -10.000 .000

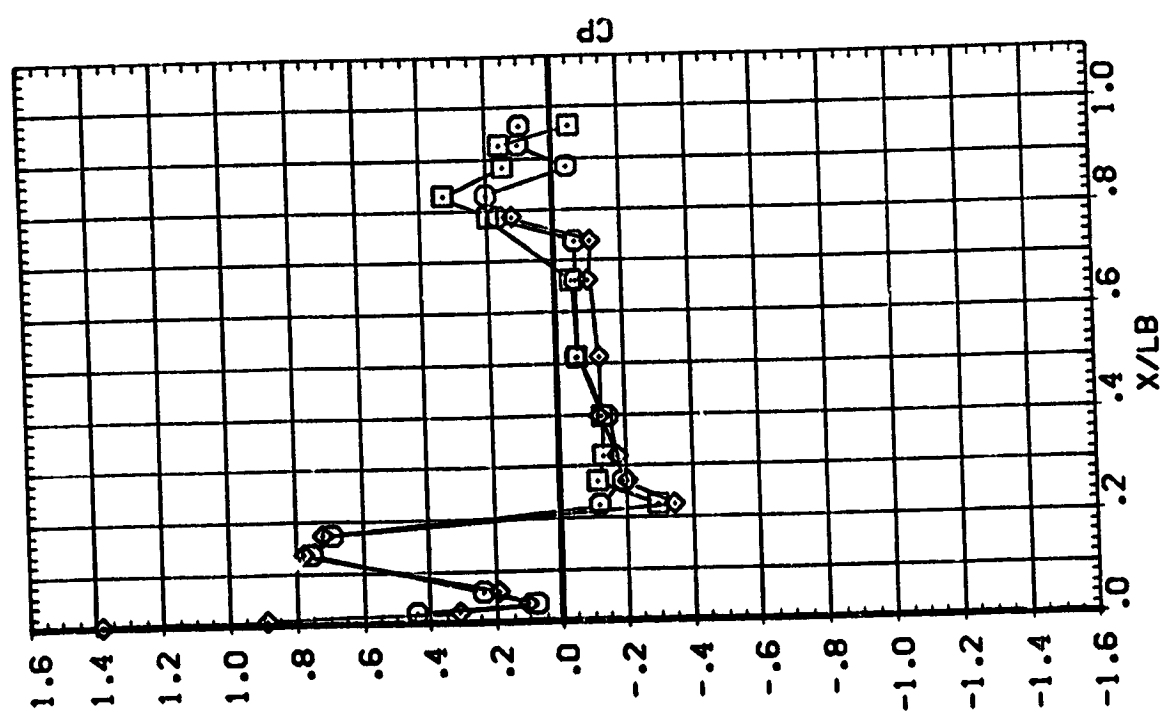
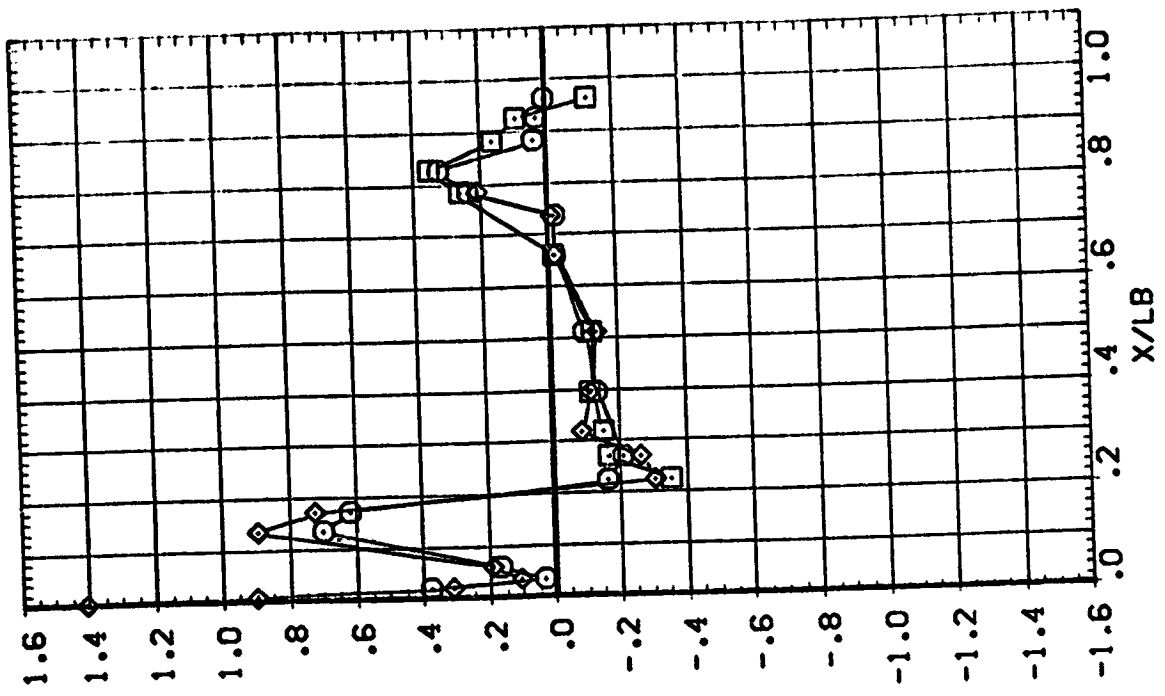
ALPHAT
 RUDDER
 RUOFLR

MACH
 1.555

BETAT
 -4.240
 -.140

PHI
 150.000
 165.000
 180.000

SYMBOL
 O
 □
 ◇



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

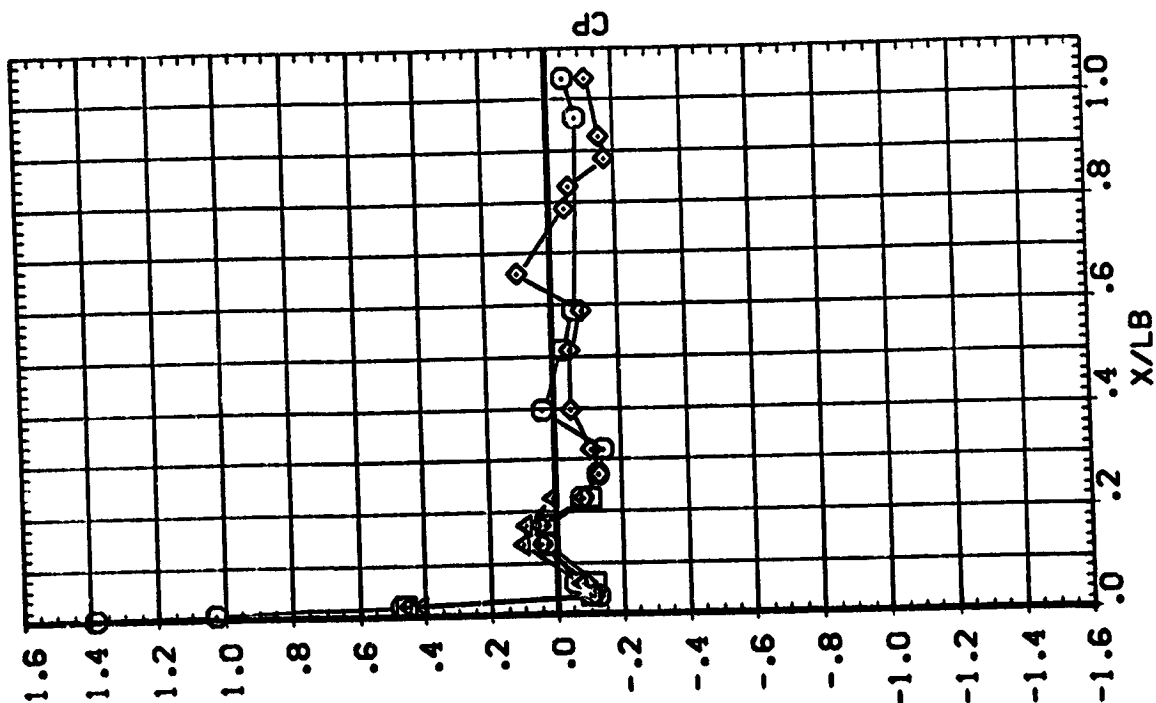
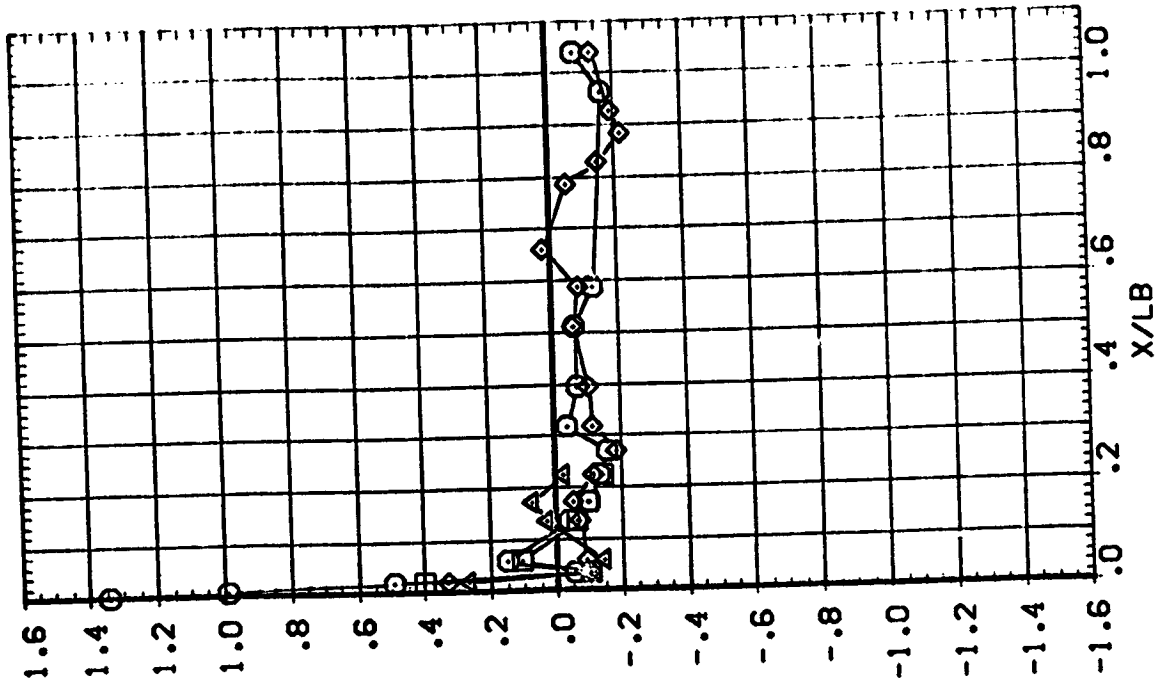
AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBOB19)

SYMBOL
 ○
 □
 ◇
 △

PHI
 .000
 20.000
 40.000
 55.000

BETAT MACH
 3.950 1.955
 8.040

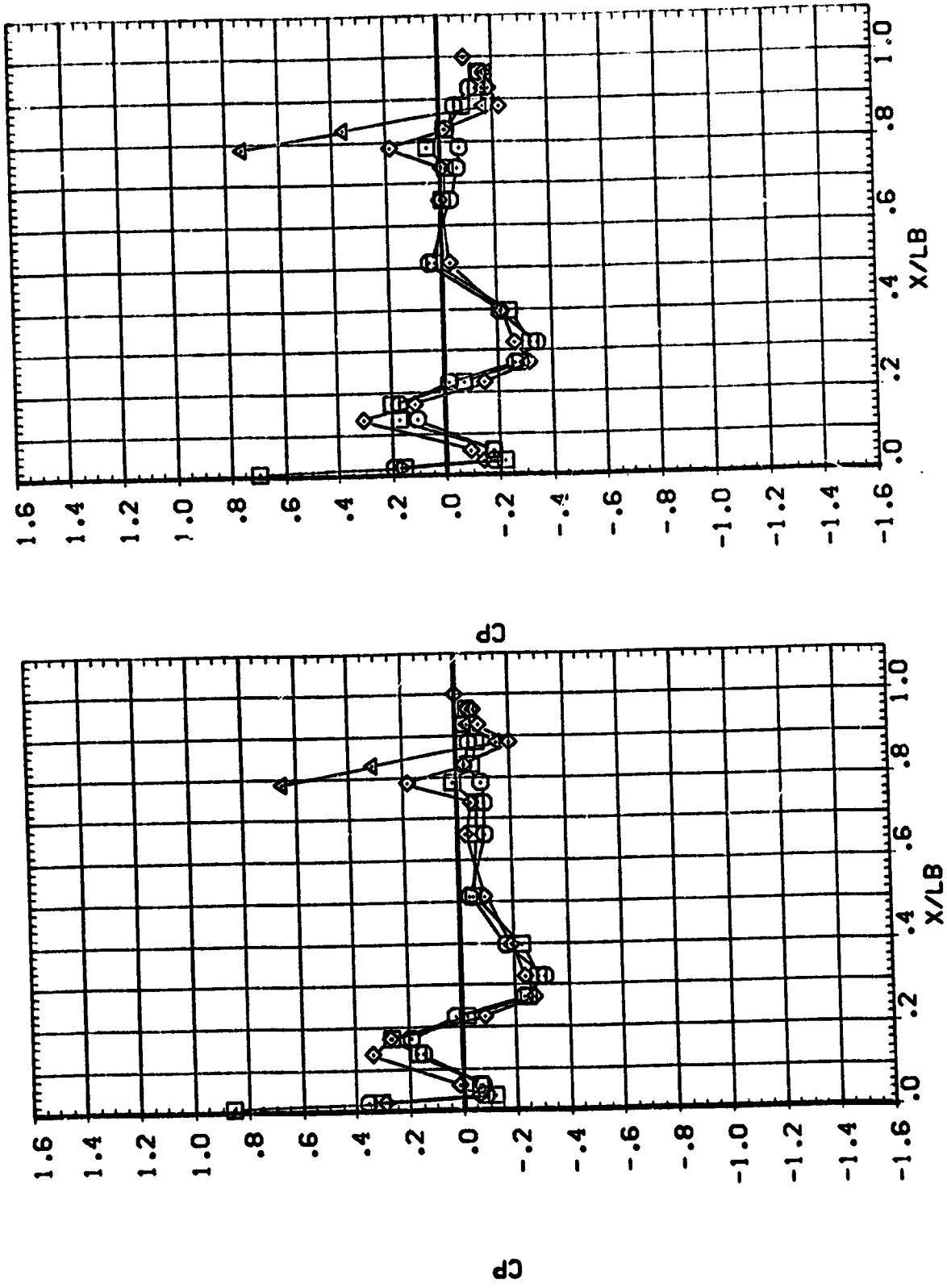
PARAMETRIC VALUES
 ALPHAT .000 ORBINC .000
 RUDDER -10.000 ELEVON .000
 RUOFLR .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RB0B19)

SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES
○	70.000	3.950	1.555	ALPHAT .000 ORBINC .000
□	90.000	8.040		RUDER -10.000 ELEVON .000
◇	120.000			RUDFLR .000
△	135.000			



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (R808:9)

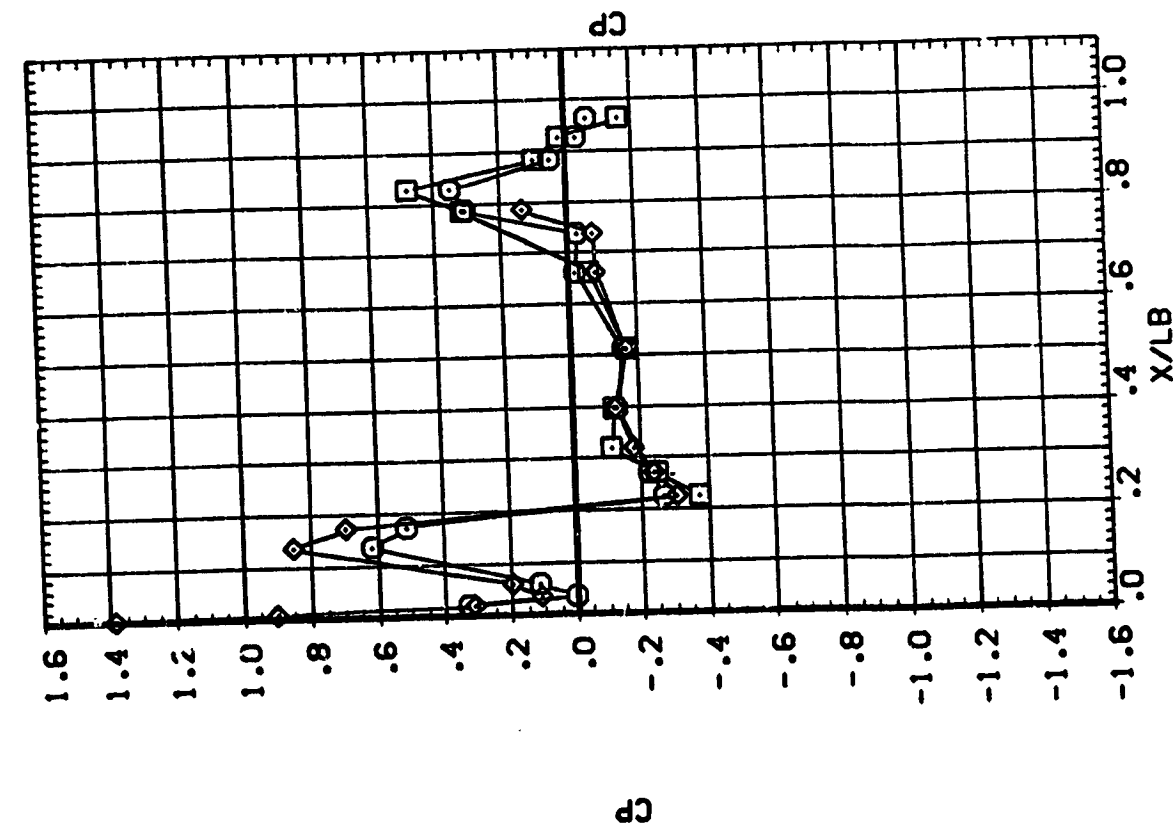
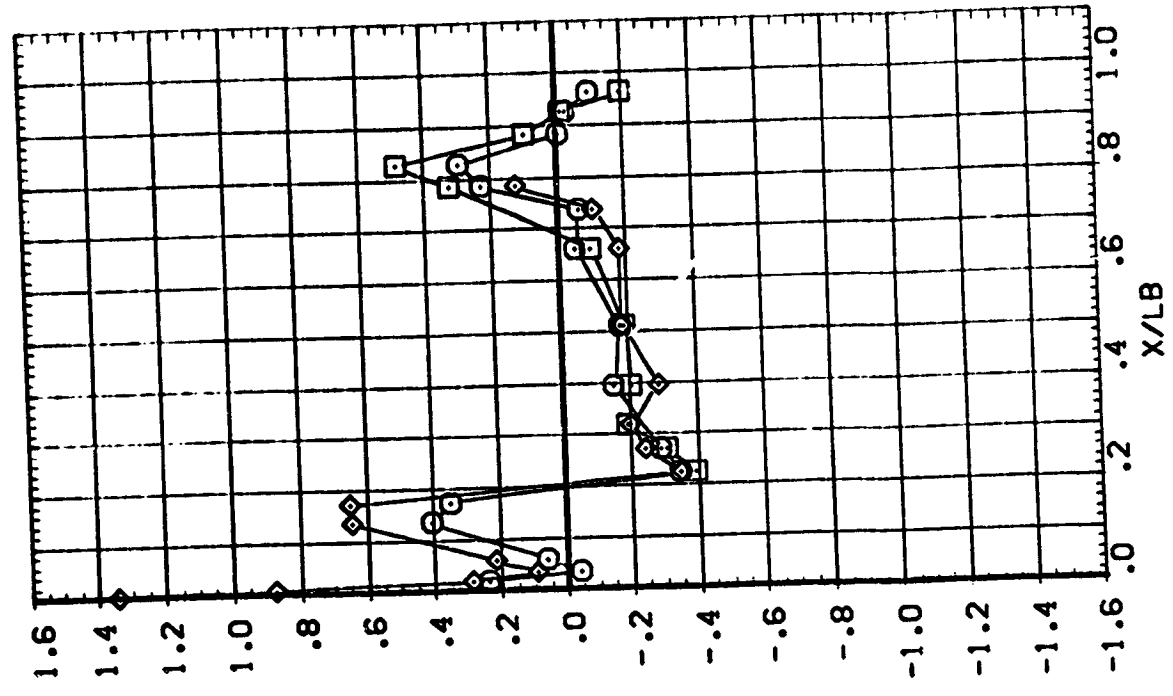
PARAMETRIC VALUES
 .000 .000 .000
 .000 .000 .000
 -10.000 ELEVCH
 .000

ALPHAAT
 RUDER
 RUDER

BETAT MACH
 3.950 1.555
 8.040

PHI
 150.000
 165.000
 180.000

SYMBOL
 ○ □ ◇



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBCB19)

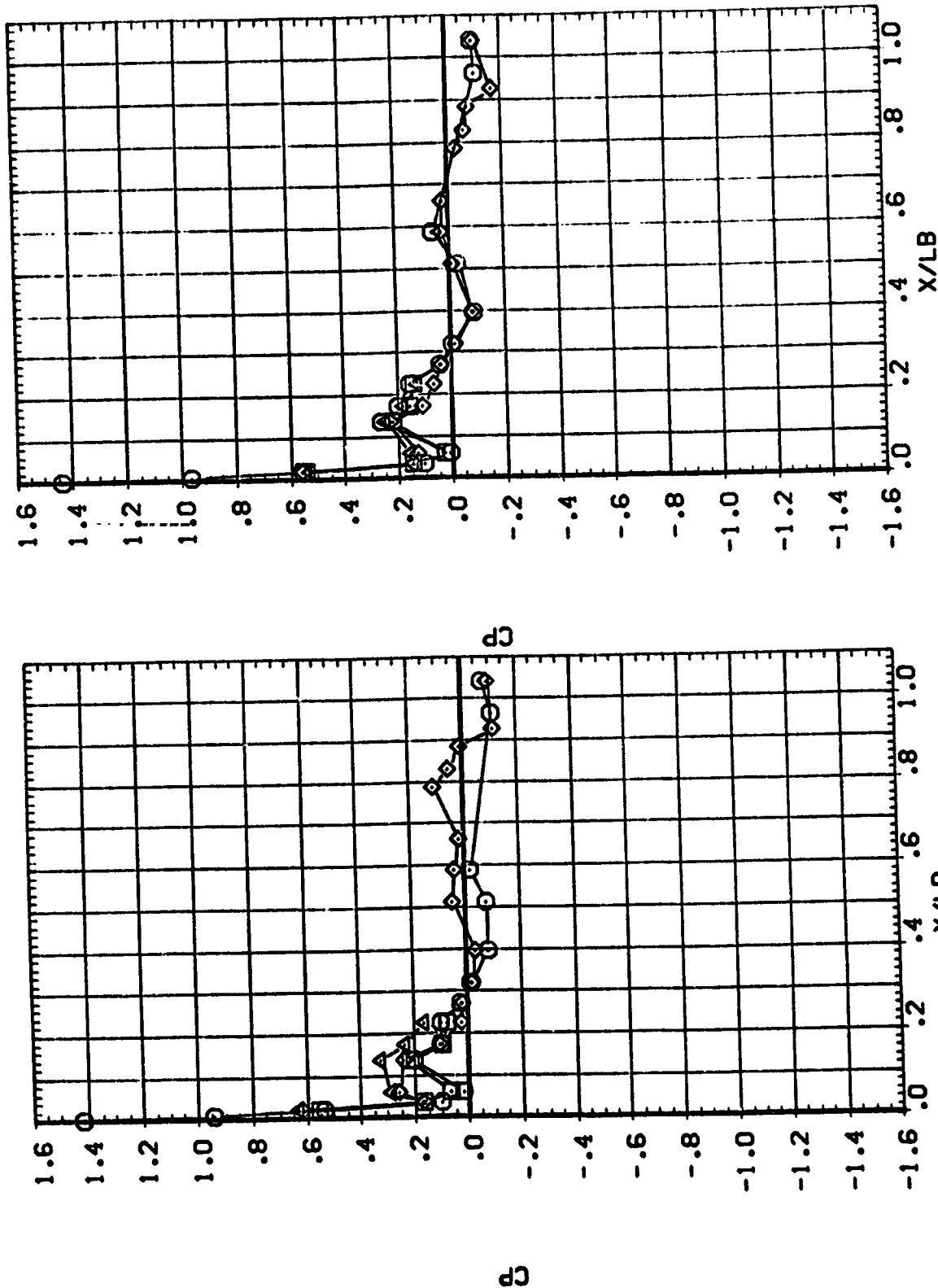
SYMBOL
○ □ ◇ △

PHI
.000
20.000
40.000
55.000

BETAT
-4.220
-.140

MACH
2.000

PARAMETRIC VALUES
ALPHAT
RUSTOR
RUSTLR
.000
-10.000
.000
CRBINC
ELEVON
.000
.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

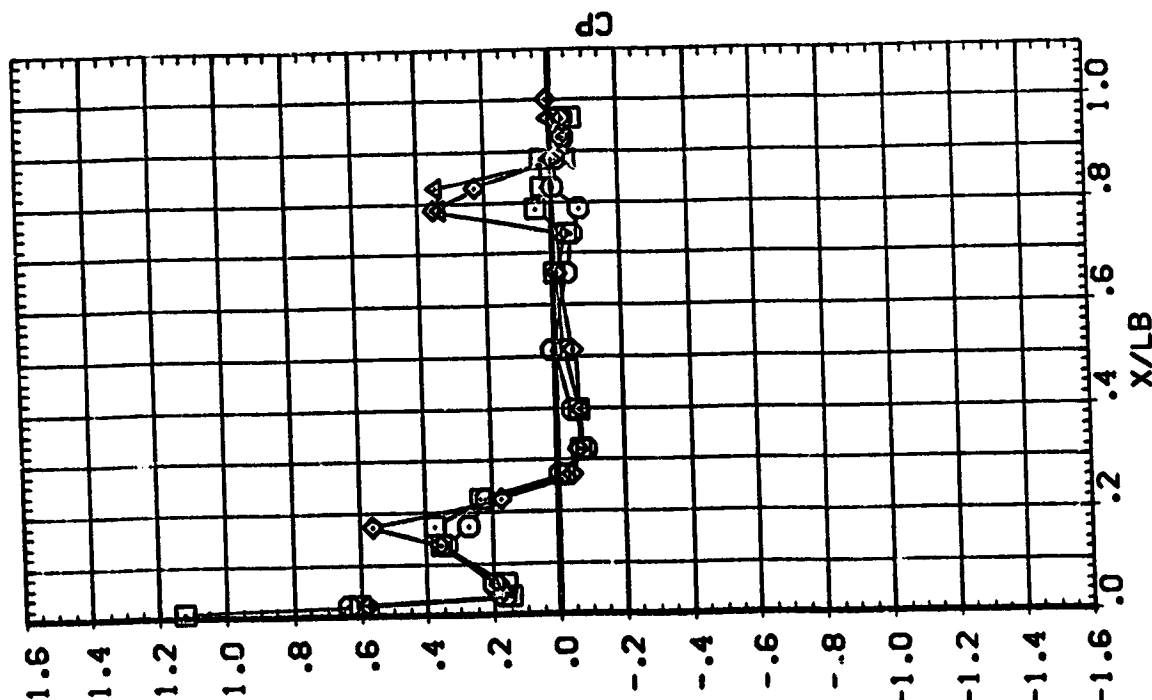
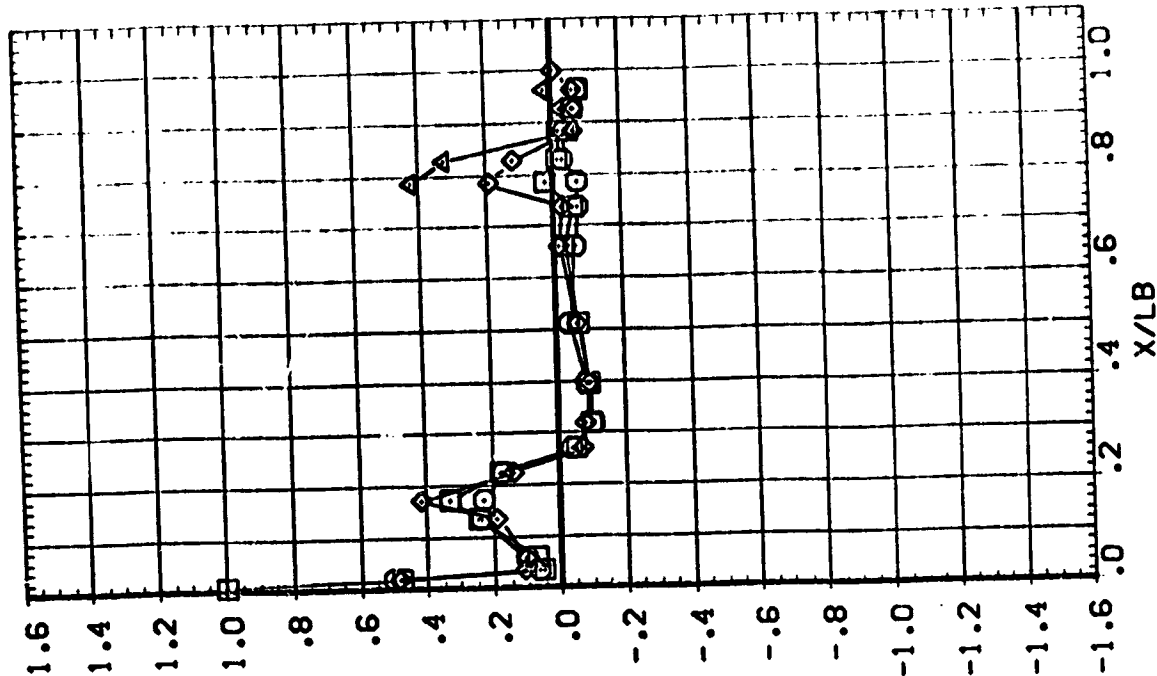
AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (R00B19)

SYMBOL
 ○ □ ◇ △

PHI
 70.000
 90.000
 120.000
 135.000

BETAT MACH
 -4.220 2.000
 -.140

PARAMETRIC VALUES
 ALPHAAT .000 ORBINC .000
 RUDDER -10.000 ELEVON .000
 RUOFLR .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

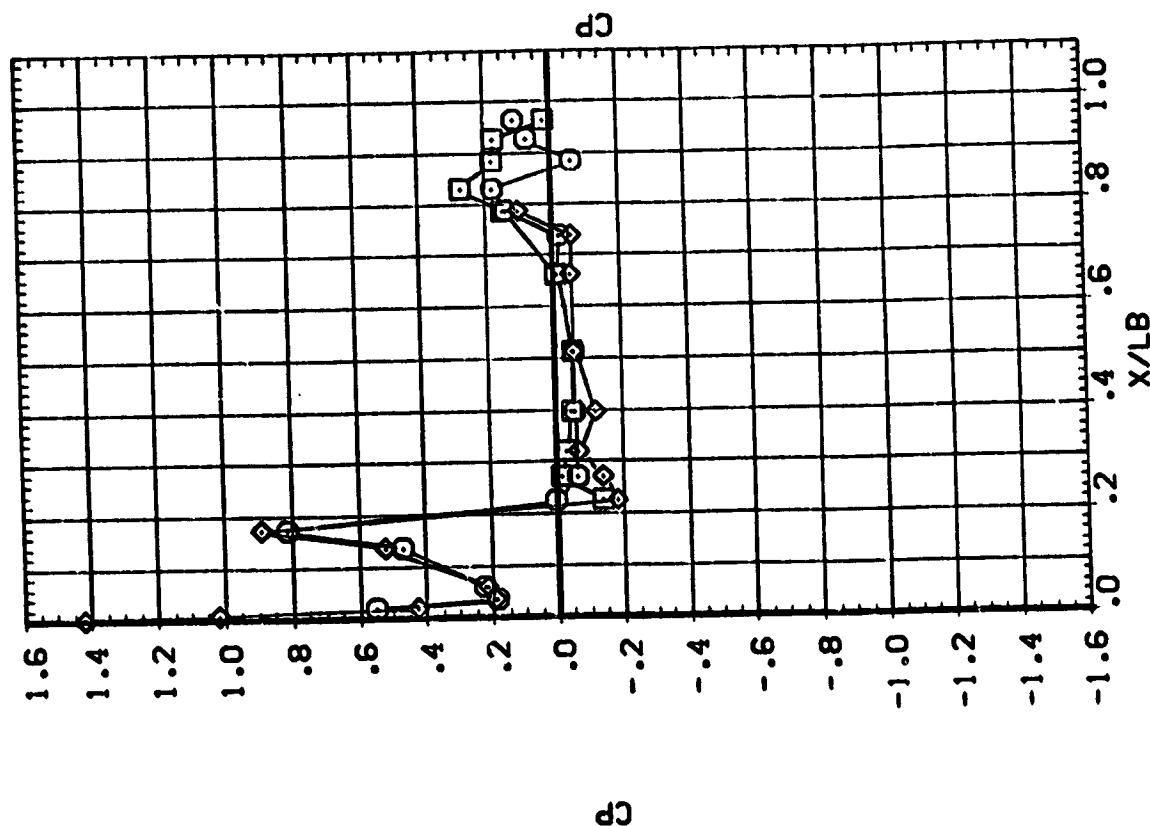
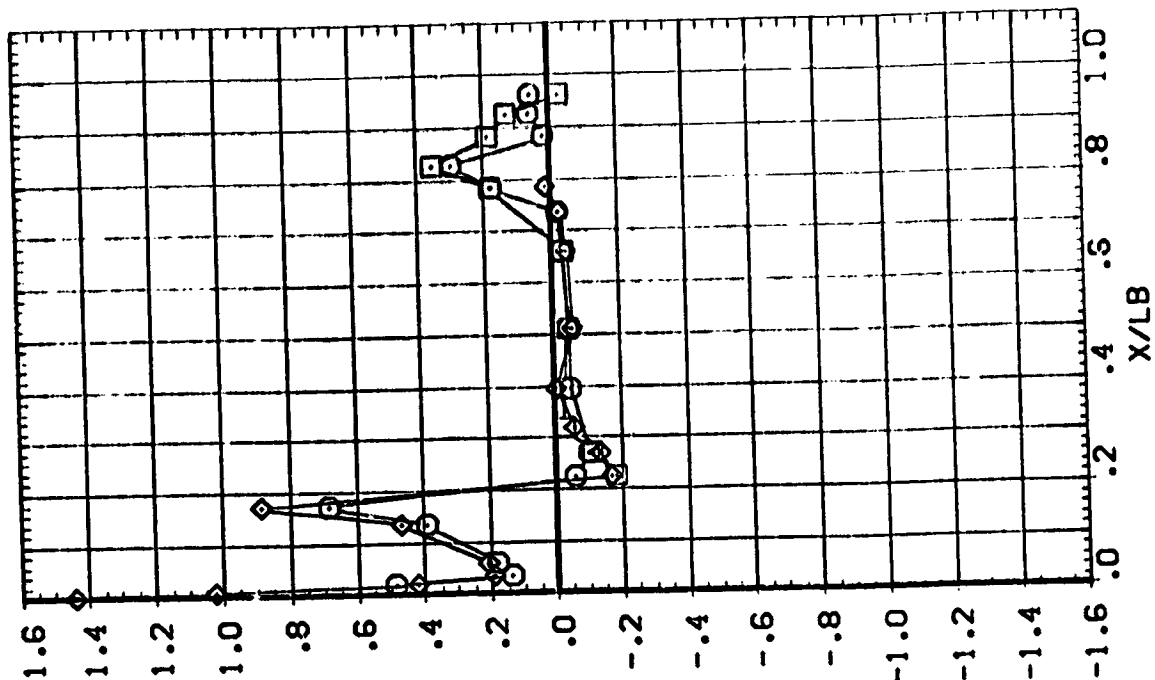
AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RB0B19)

SYMBOL
 PH1
 150.000
 165.000
 180.000

BETAT
 -4.220
 -.140

MACH
 2.000

PARAMETRIC VALUES
 ALPHAT .000
 RUDDER -10.000
 RUDDL 0.000
 ELEVON .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

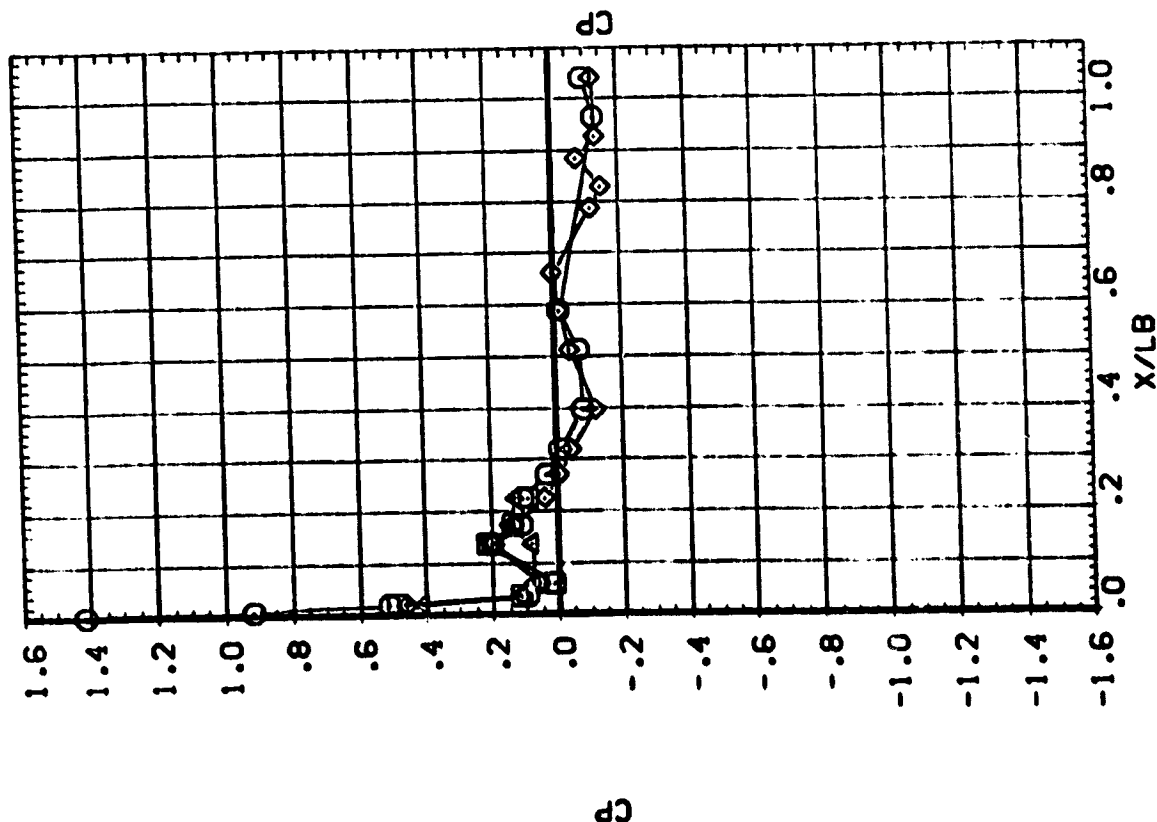
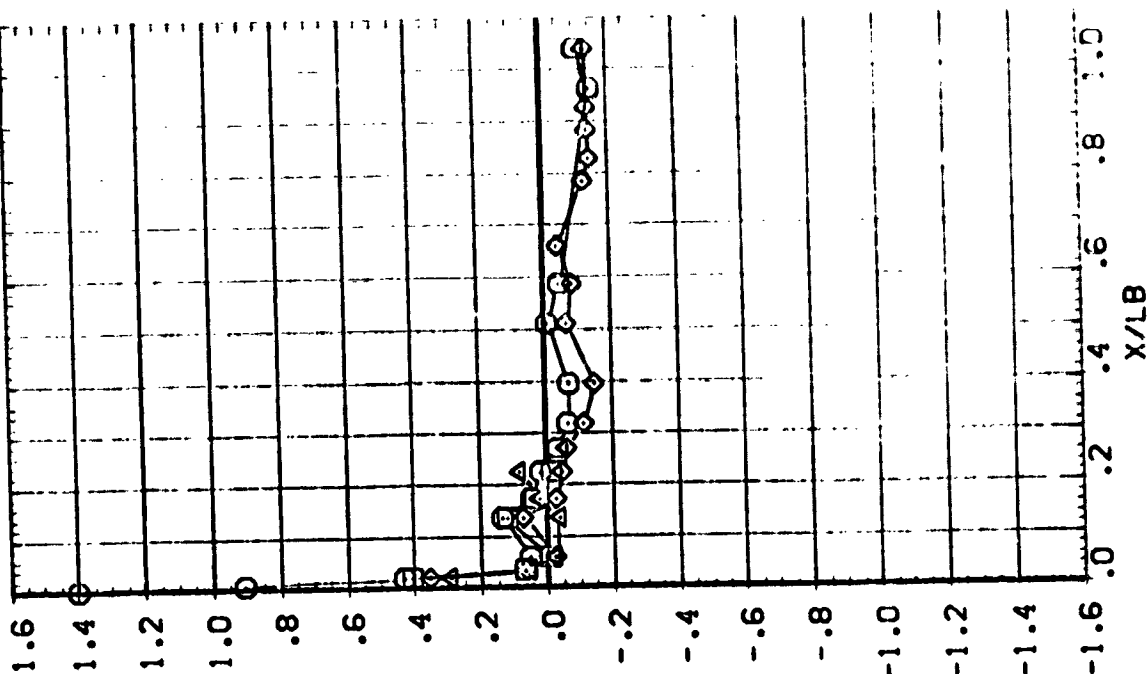
AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBCB19)

SYMBOL
 ○ □ ◇ △

PHI
 .000
 20.000
 40.000
 55.000

BETAT MACH
 3.930 2.000
 3.020

PARAMETRIC VALUES
 ALPHAT .000
 RJOER -10.000
 RJOFLR .000
 SSBINC .000
 ELEVON .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

III

AVES 97-707 1A9 C2A + S3 + T9 ORBITER FUSELAGE (REC3:9)

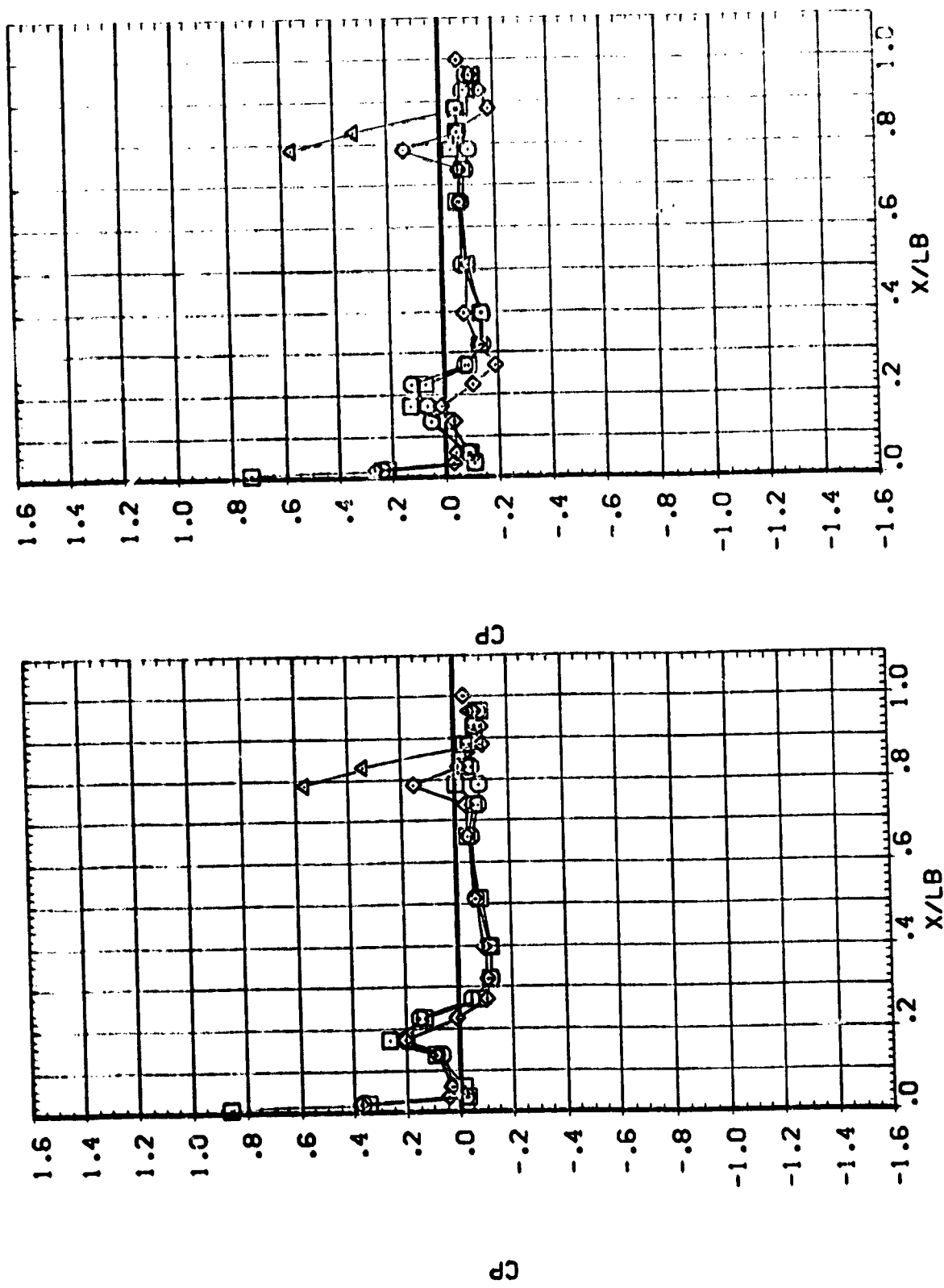
SYMBOL
○ □ △

PHI 75.0000
90.0000
120.0000
135.0000

BEYAT 3.930
8.272

MACH 2.000

PARAMETRIC VALUES
ALPHA 0.000
BETAS 0.000
0.000
0.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

(R00019)

AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE

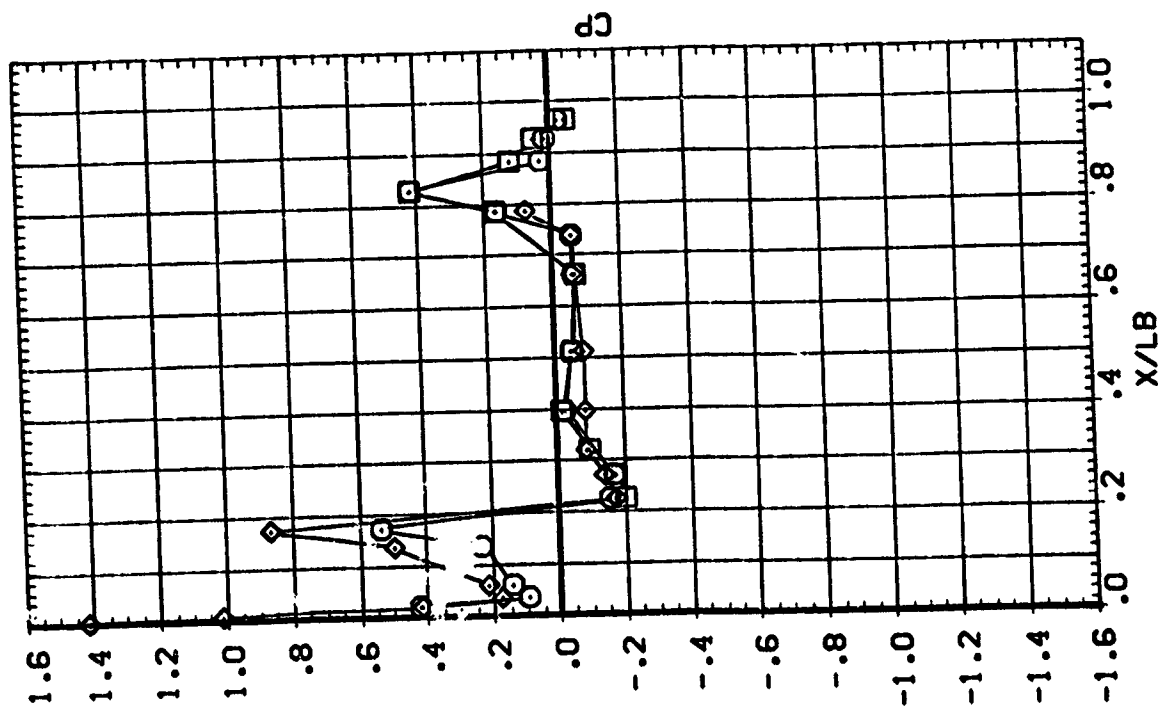
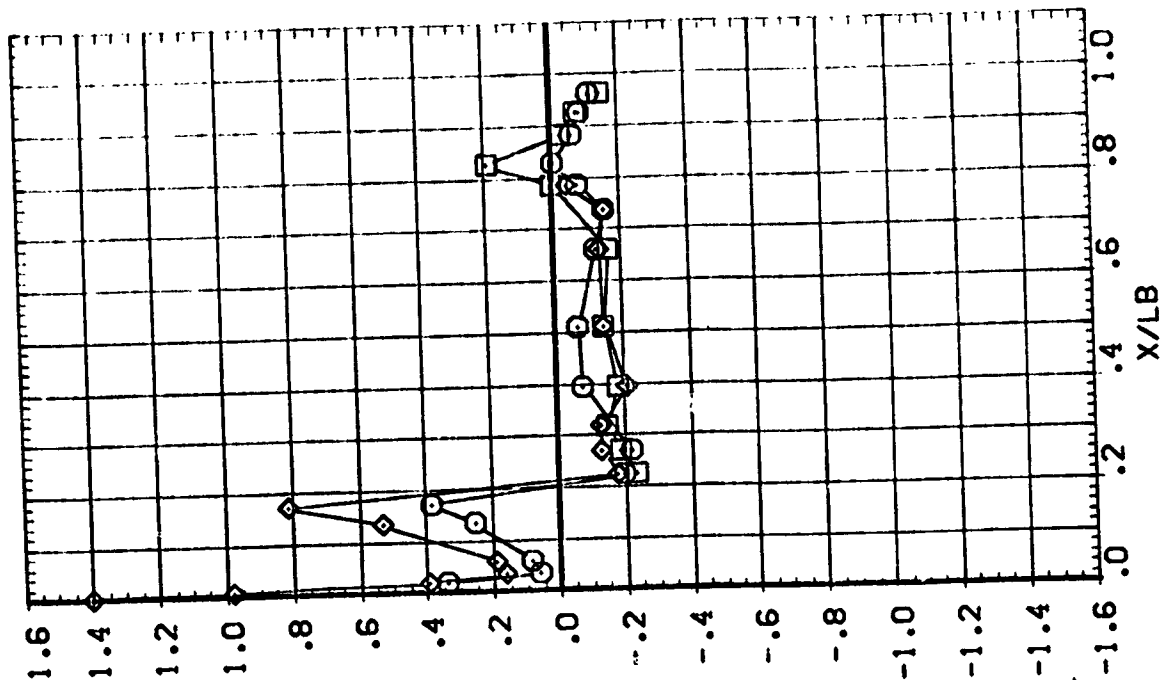
SYMBOL
 ○
 □
 ◇

PHI
 150.000
 165.000
 180.000

BETAT
 3.930
 8.020

MACH
 2.000

PARAMETRIC VALUES
 ALPHAT .000
 RUDDER -10.000
 RUDDLR .000
 ORB:NC .000
 ELEVON .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RB0B25)

SYMBOL
 ○
 □
 ◇
 △

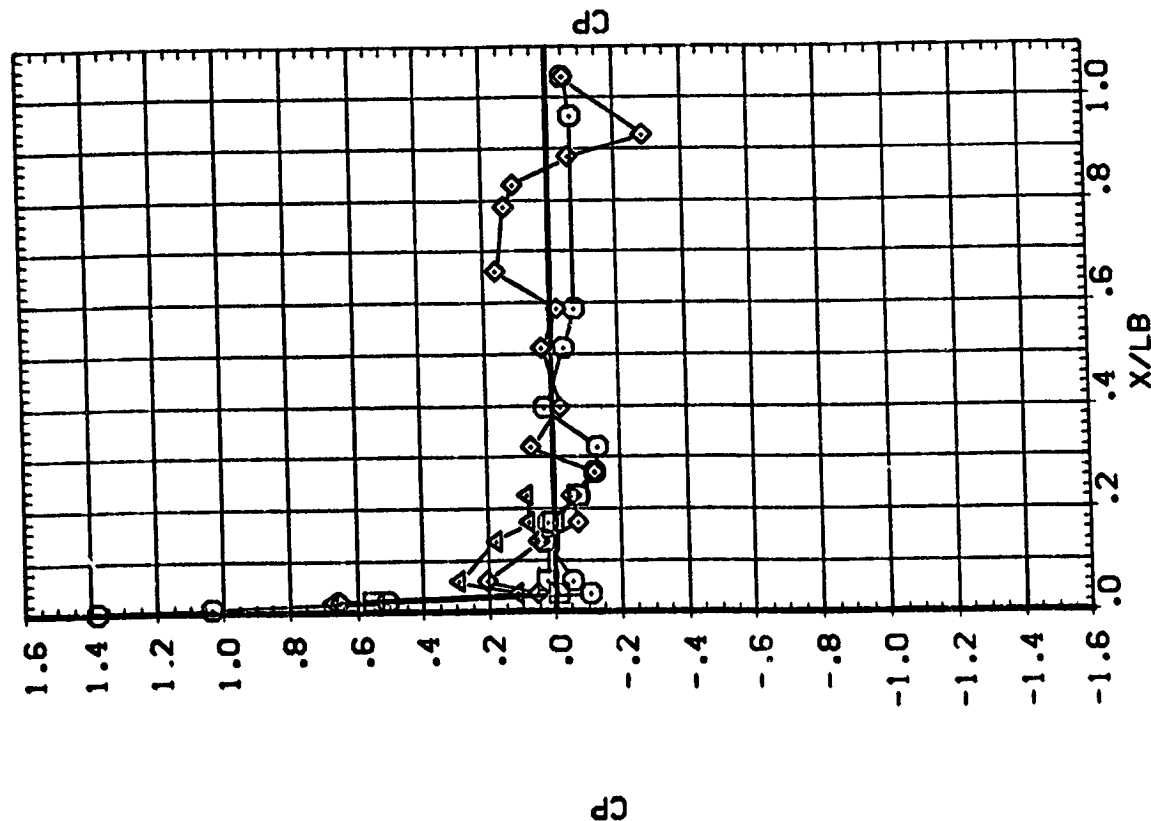
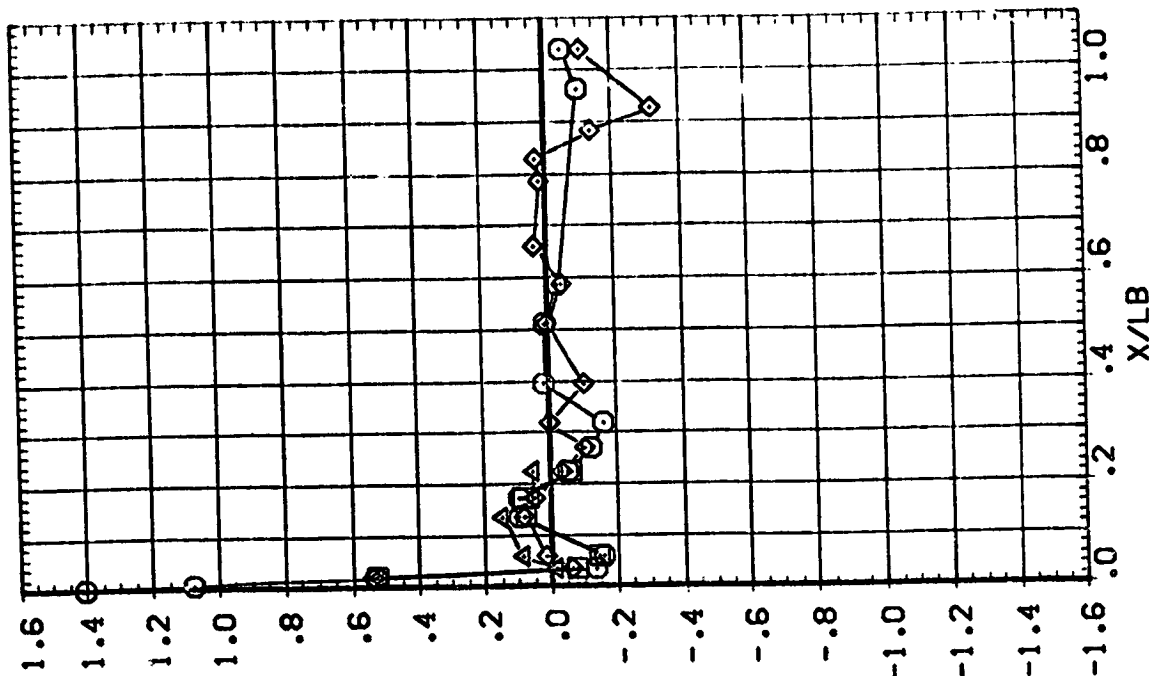
PHI .000
 20.000
 40.000
 55.000

BETAT -4.240
 -1.30

MACH 1.555

PARAMETRIC VALUES
 .000 .000 .000
 .000 .000 .000
 15.000 15.000 15.000
 .000 .000 .000

ALPHAT
 RUDDER
 RUOFLR



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

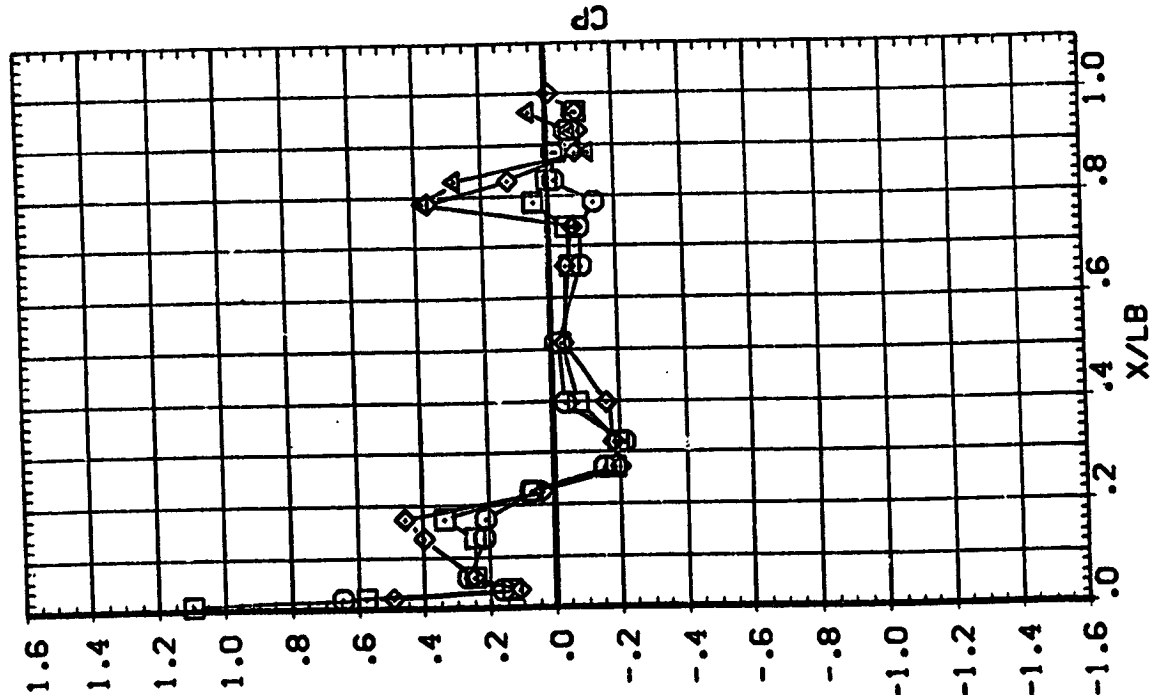
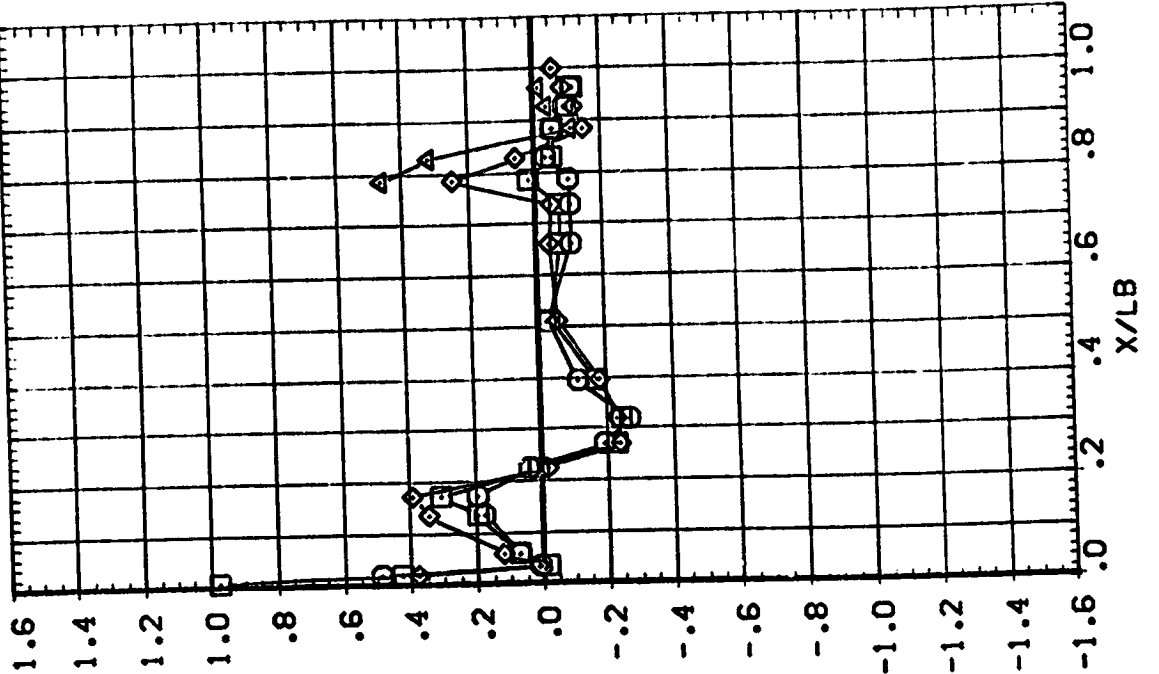
SYMBOL
□
◇
△

PHI
70.000
90.000
120.000
135.000

BETAT
-4.240
-.130

MACH
1.555

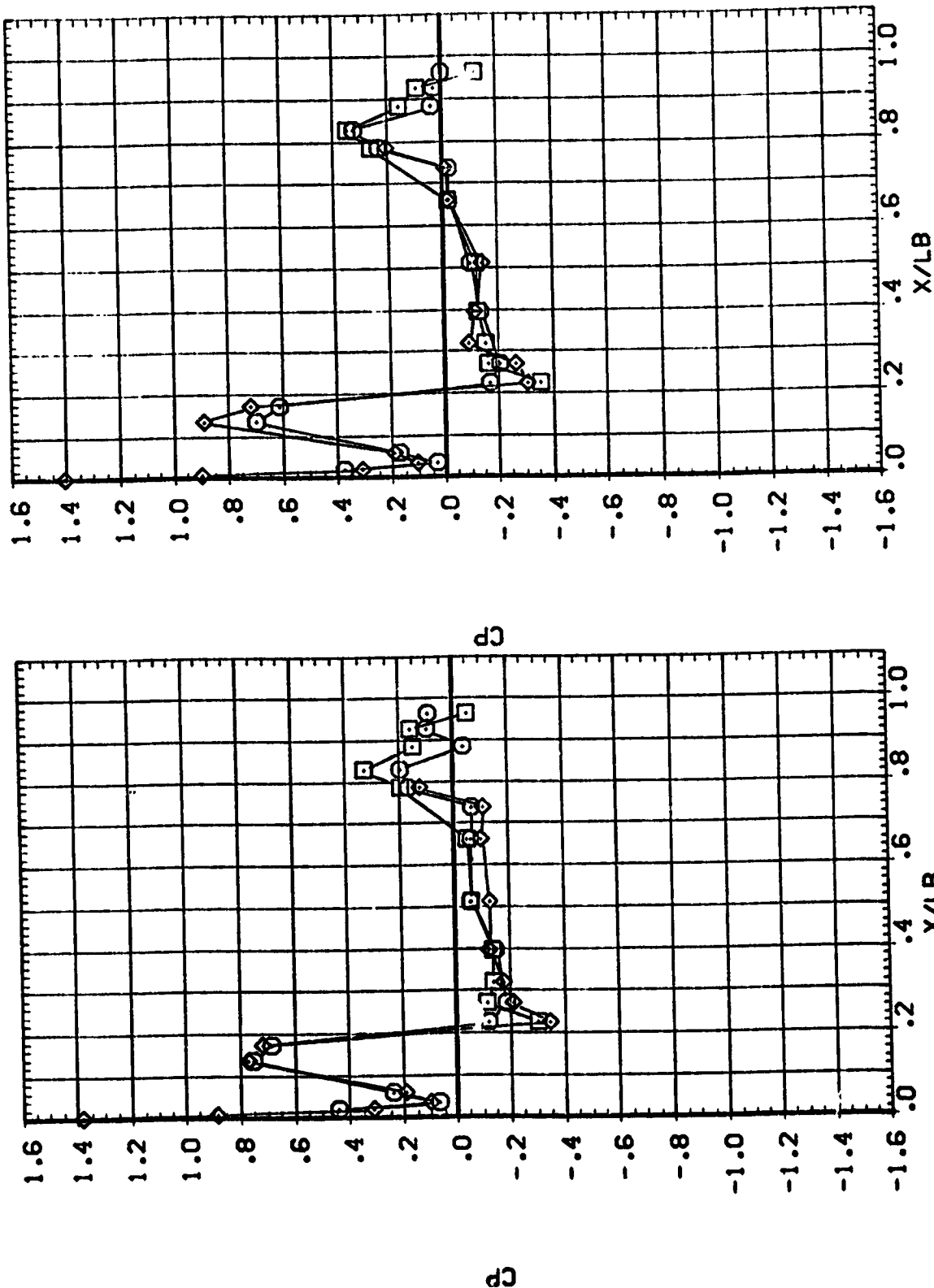
PARAMETRIC VALUES
ALPHAT .000 ORBINC .000
RUDCLR 15.000 ELEVON .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (R80825)

SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES
○	150.000	-4.240	1.555	ALPHAAT .000 CRBTINC .000
□	165.000	-.130		RUDDER 15.000 ELEVON .000
◇	180.000			RUDFLR .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

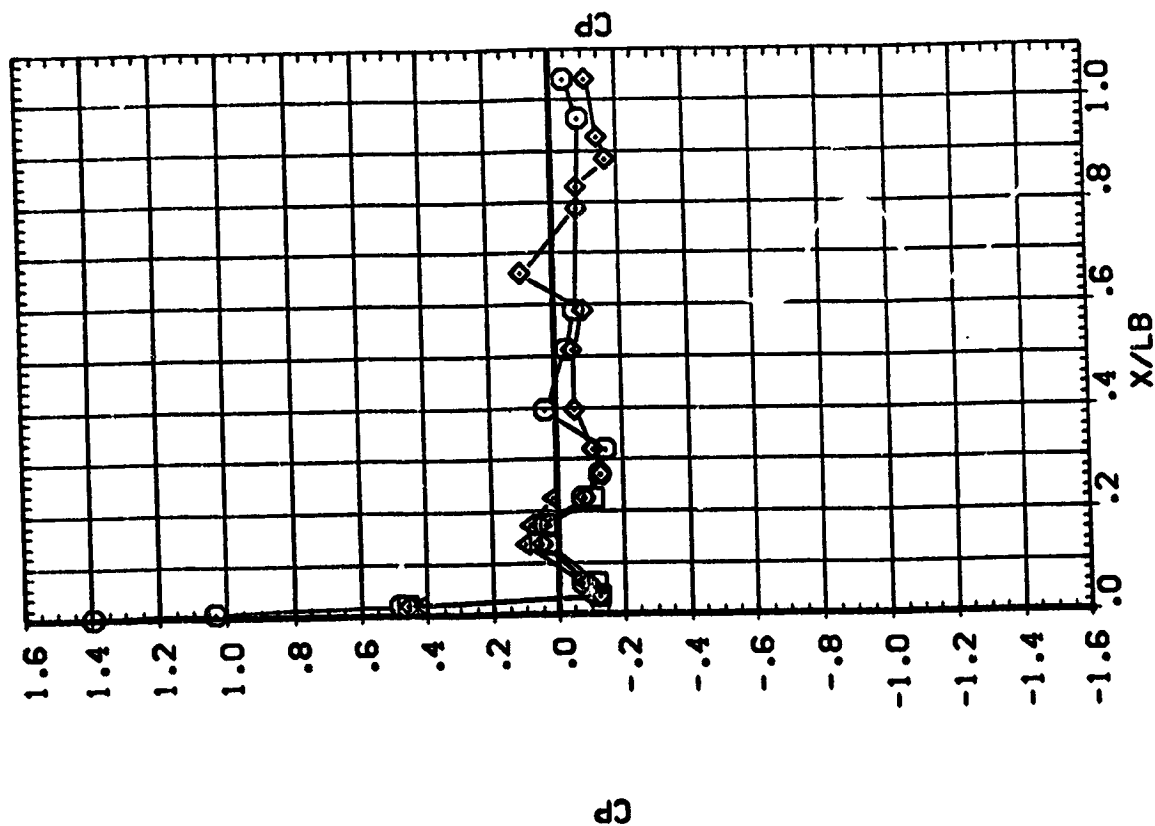
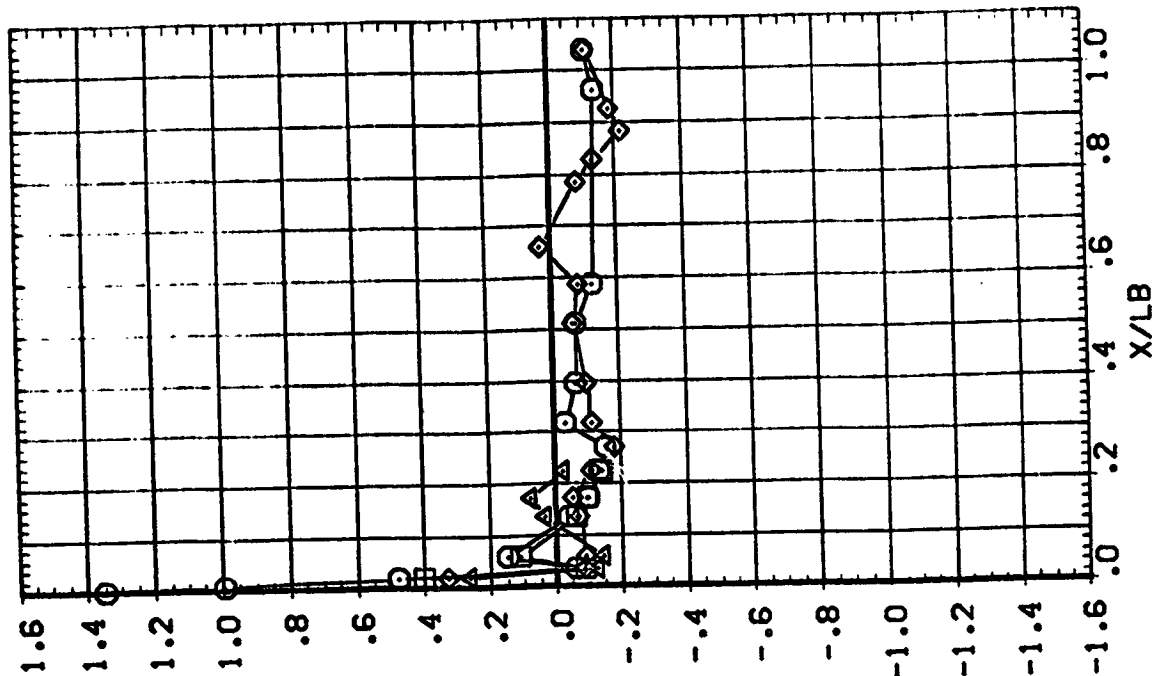
AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBC925)

PARAMETRIC VALUES

ALPHA	.000	ORBIT INC	.000
RUDDER	5.000	ELEVON	.000
RUDDER	.000		

SYMBOL

PHI	BETAT	MACH
.000	3.950	1.555
20.000	8.040	
40.000		
55.000		



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

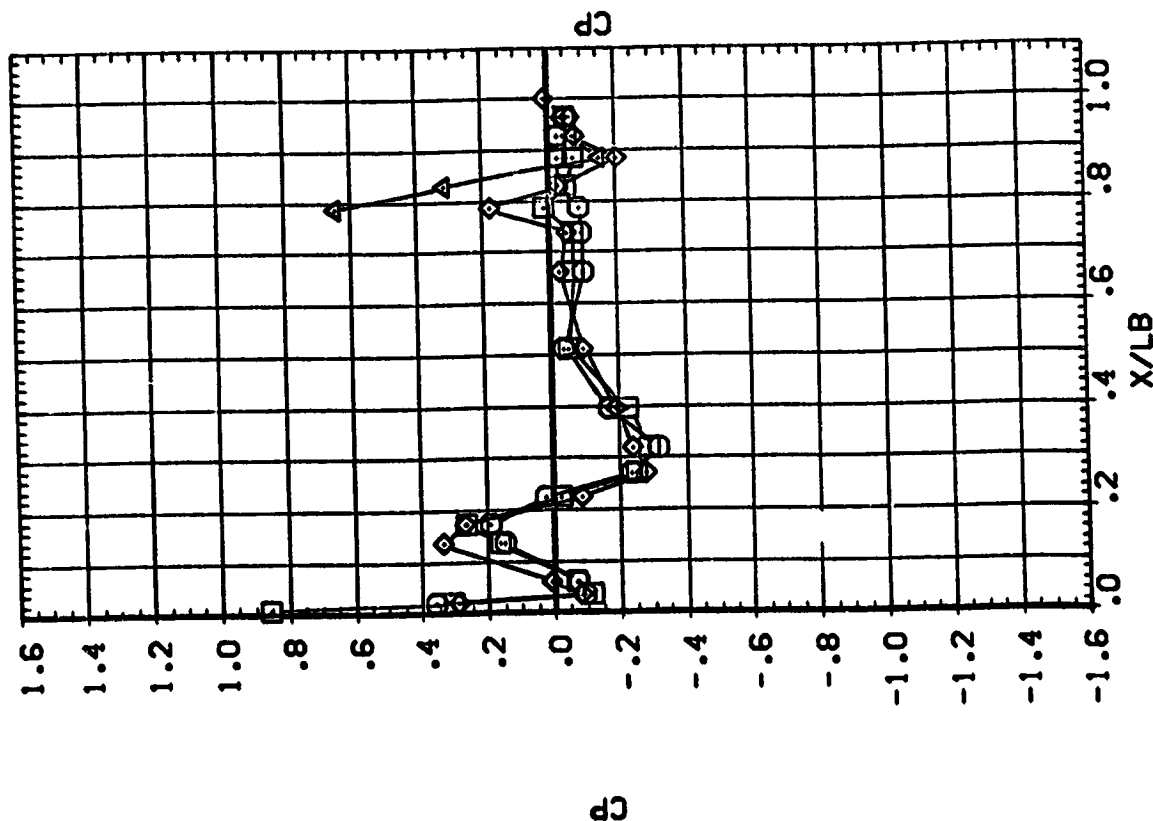
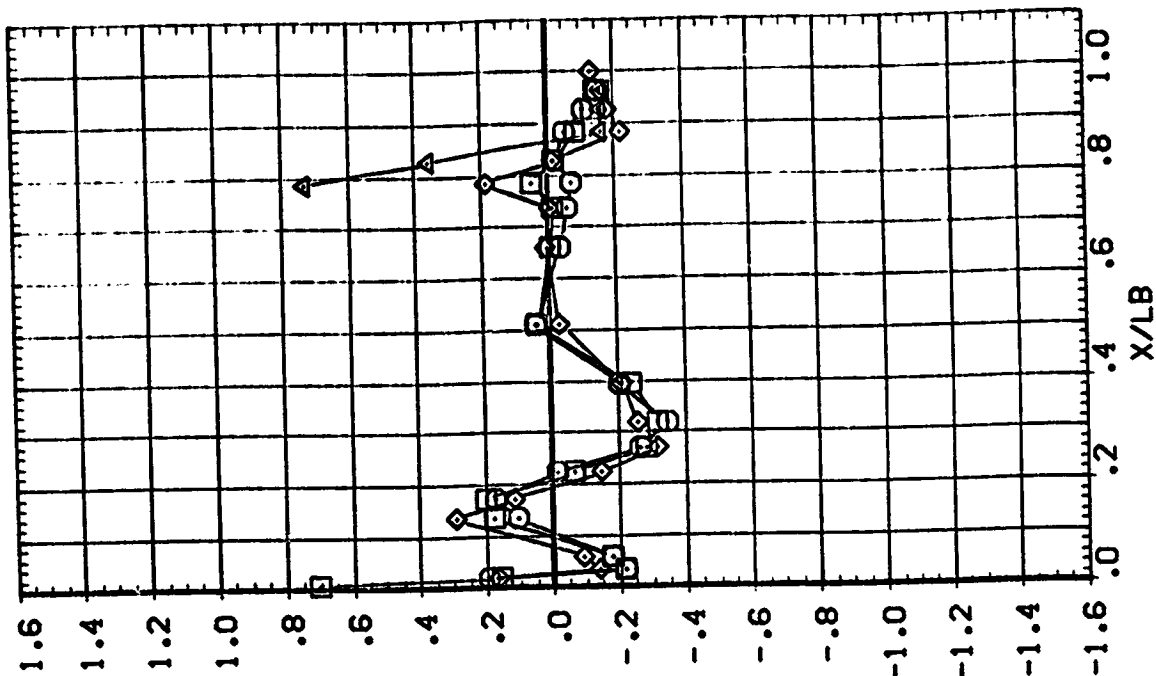
SYMBOL
 ○
 □
 ◇
 △

PHI
 70.000
 90.000
 120.000
 135.000

BETAT MACH
 3.950 1.555
 8.040

PARAMETRIC VALUES

ALPHAT .000
 RUDDER 15.000
 RUOFLR .000
 ORBINC .000
 ELEVON .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

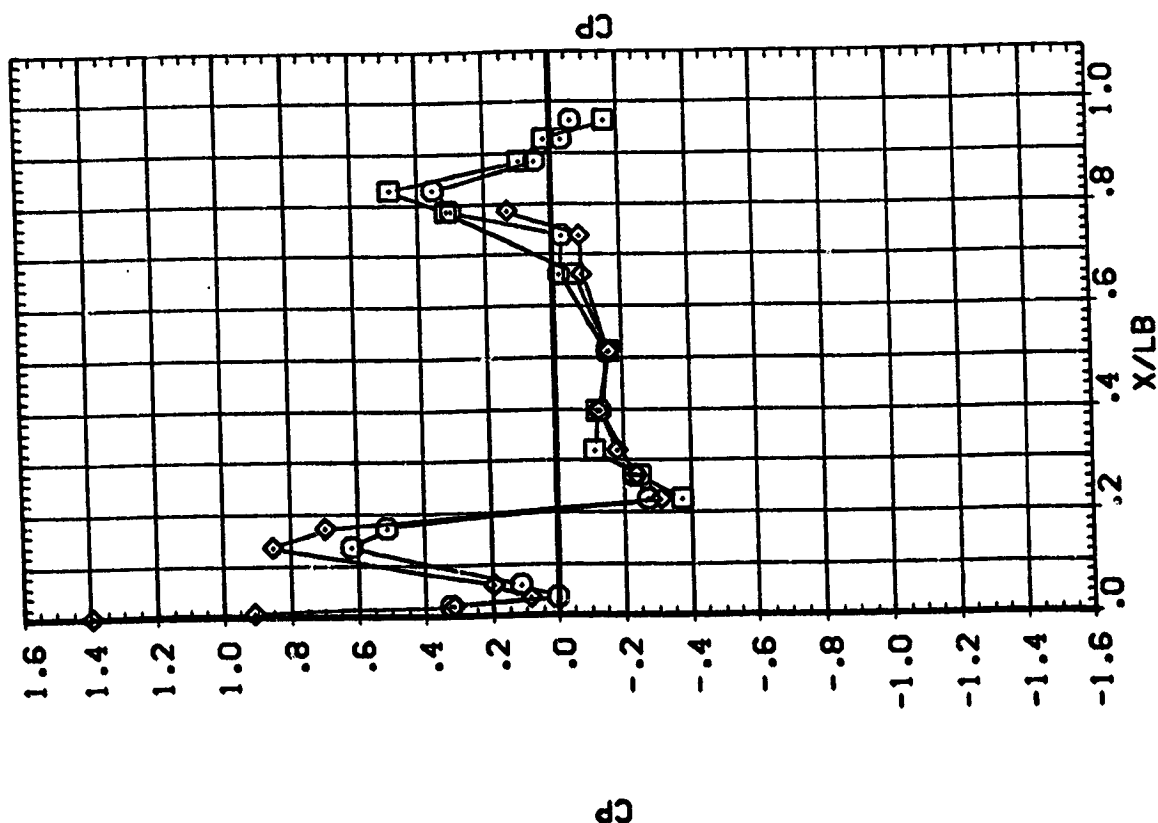
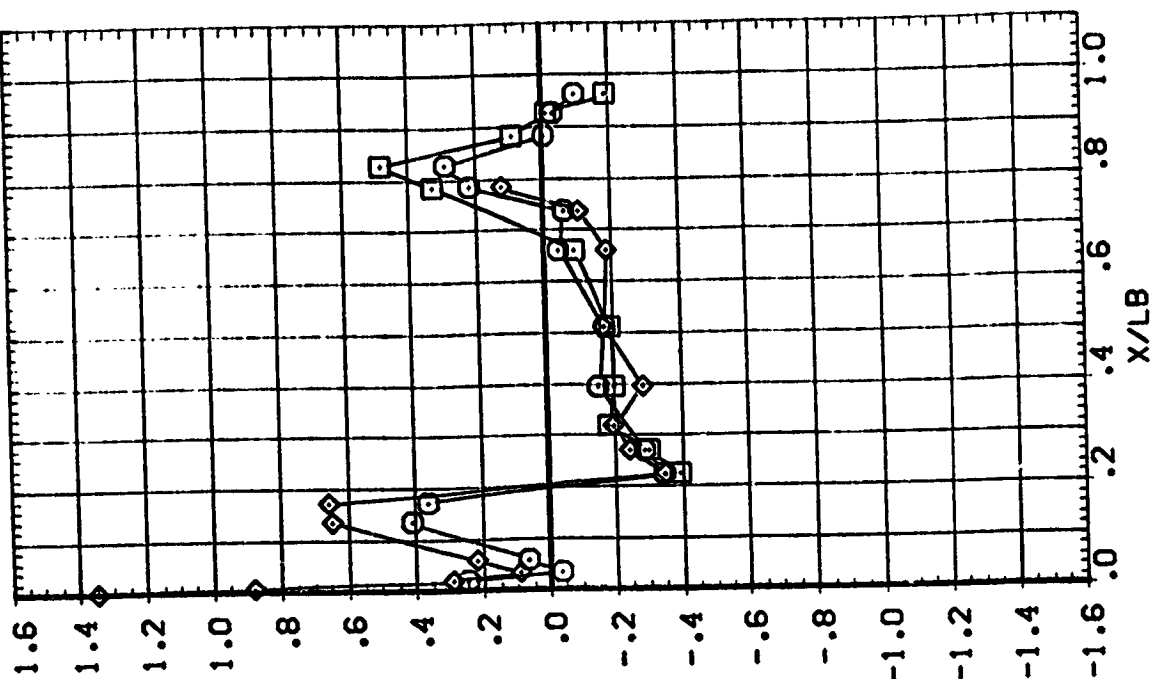
(RB0825)

PHI
150.000
165.000
180.000

BETAT	MACH
3.950	1.555

ALPHA
RUBBER
ROOF, R

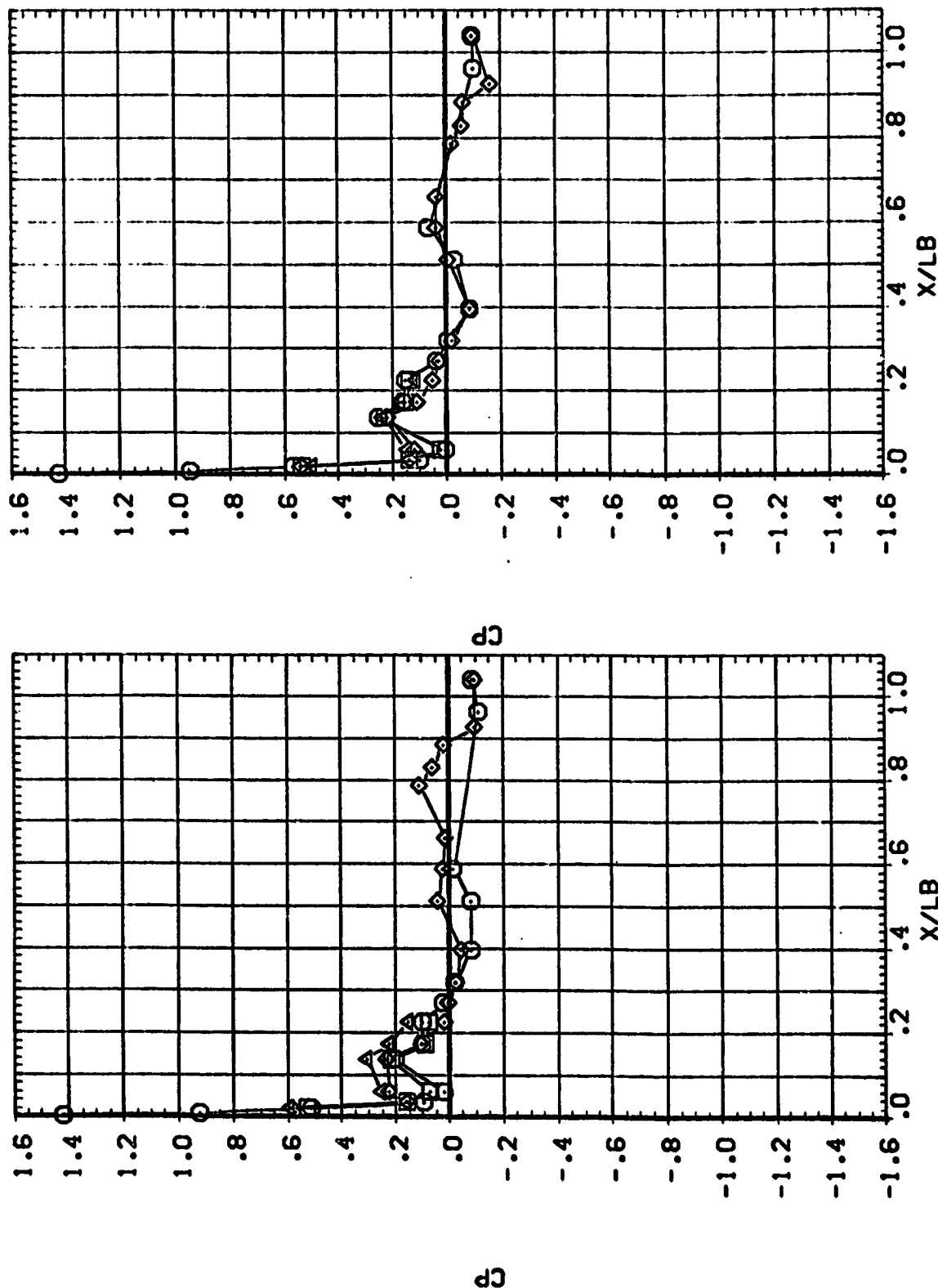
88



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBCB25)

SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES
○	.000	-4.210	2.000	ALPHAT .000 ORBINC .000
□	20.000	-.140		RJDDR 15.000 ELEVGN .000
◇	40.000			RJDFLR .000
△	55.000			



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (R3C325)

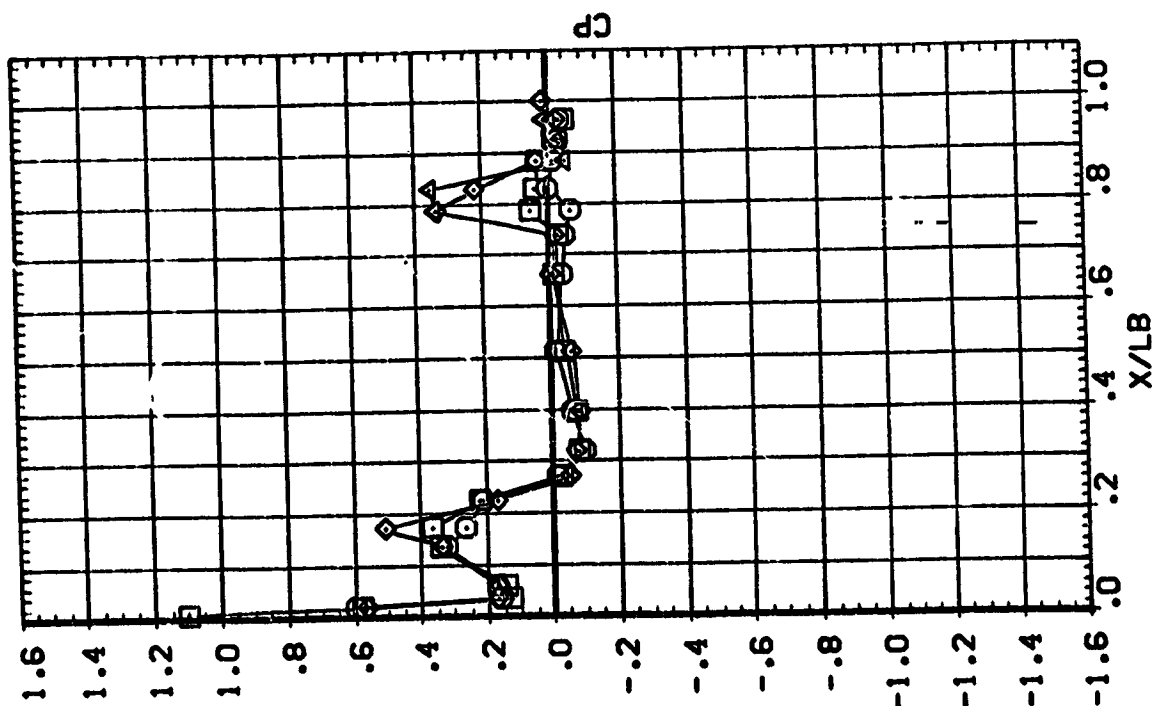
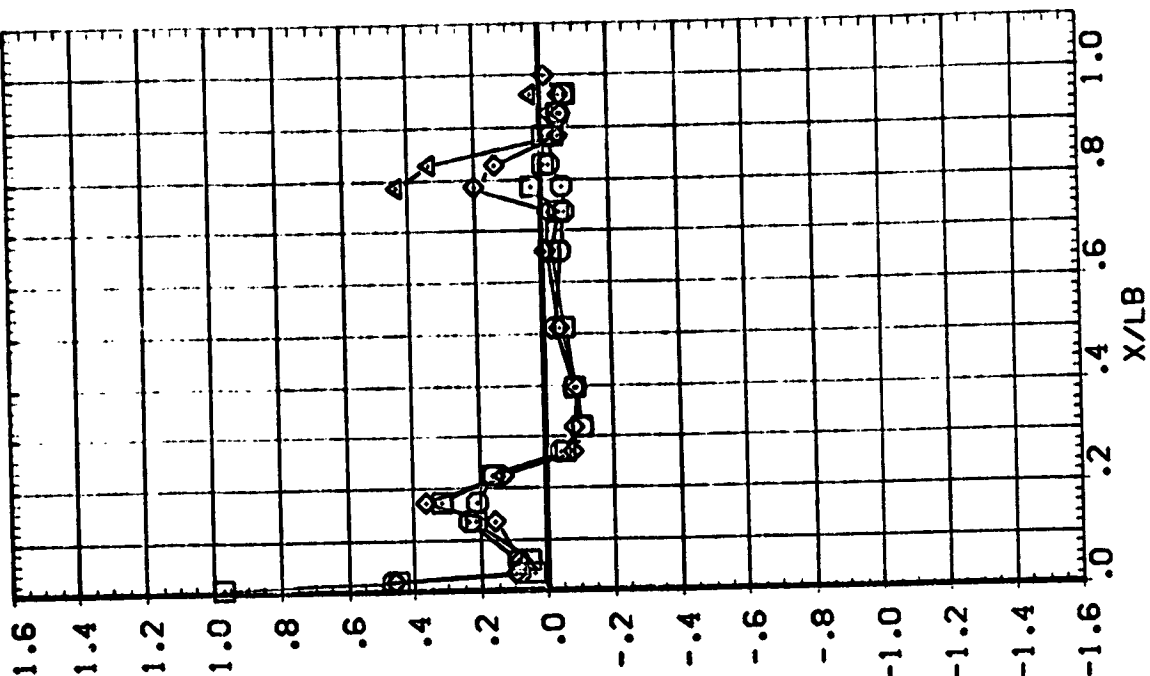
SYMBOL
 ○ □ ◇ △

PHI
 70.000
 90.000
 120.000
 135.000

BETAT
 -4.210
 -.140

MACH
 2.000

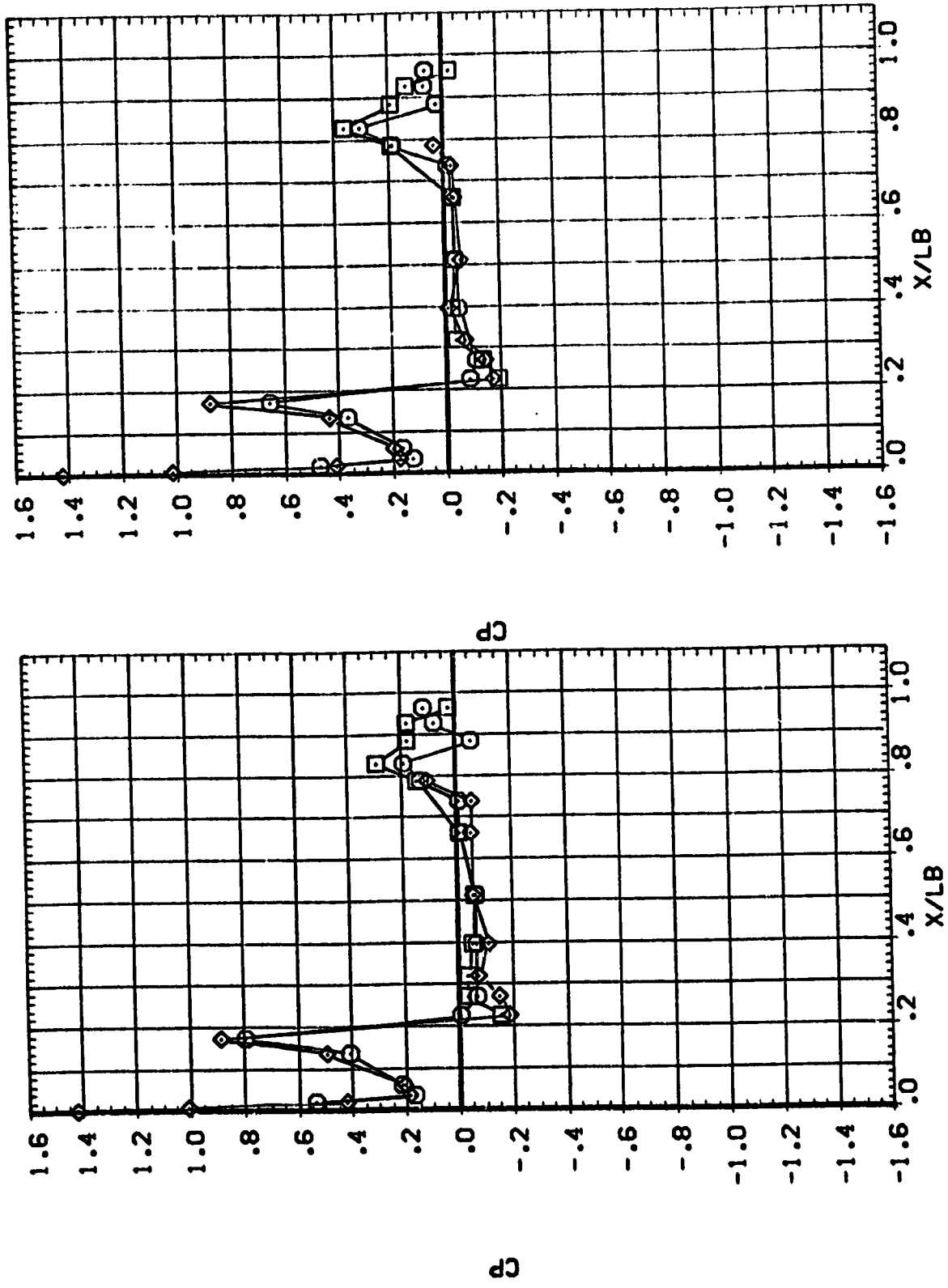
PARAMETRIC VALUES
 ALPHA° .000 ORBINC .000
 RUDDER 15.000 ELEVON .000
 RUD_R .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (R80925)

SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES	
	150.000	-4.210	2.000	ALPHA	ORBITING
	165.000	-0.140		RUDER	ELEVON
	180.000			RUDER	



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (R80825)

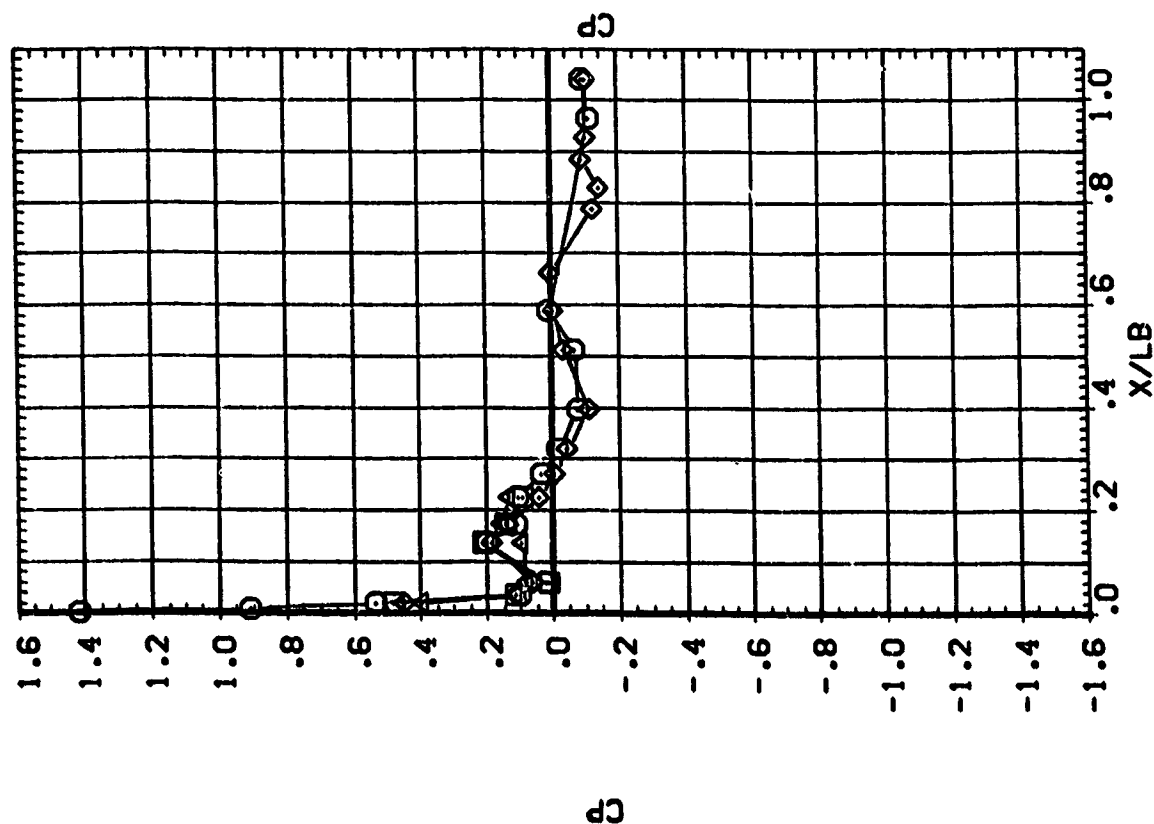
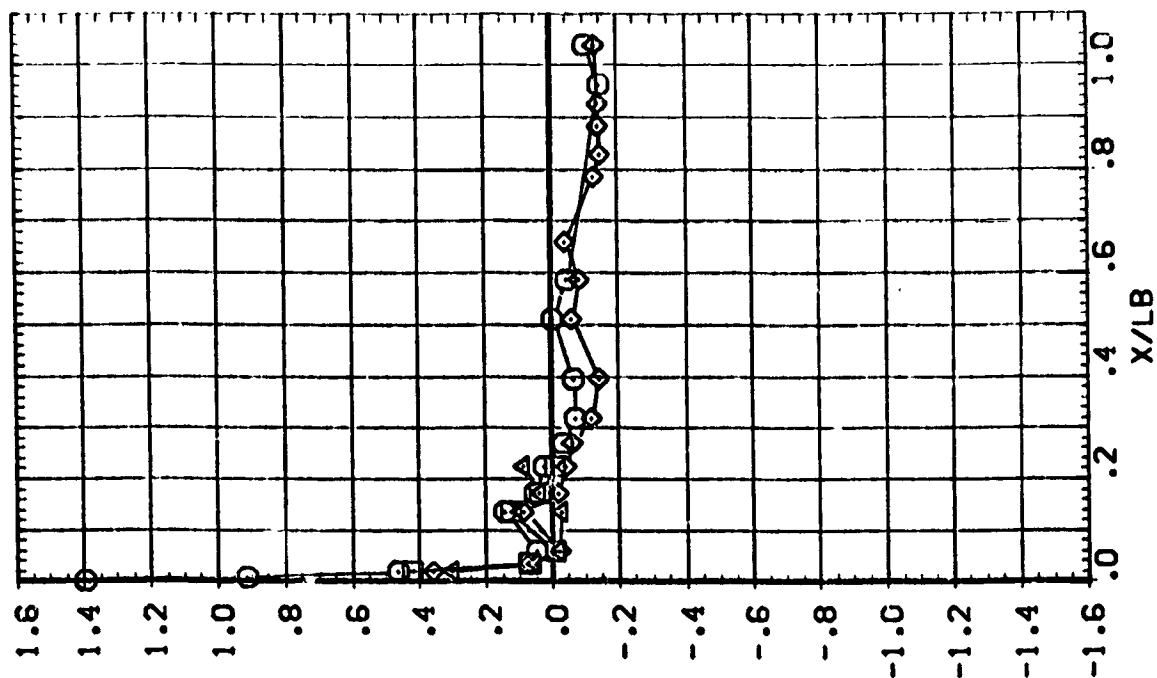
PARAMETRIC VALUES
 .000 0801NC
 15.000 ELEVON
 .000

ALPHAT
 RLODR
 RLOFLR

BETAT MACH
 3.950 2.000
 8.020

PHI
 .000
 20.000
 40.000
 55.000

SYMBOL
 □
 ◇
 △



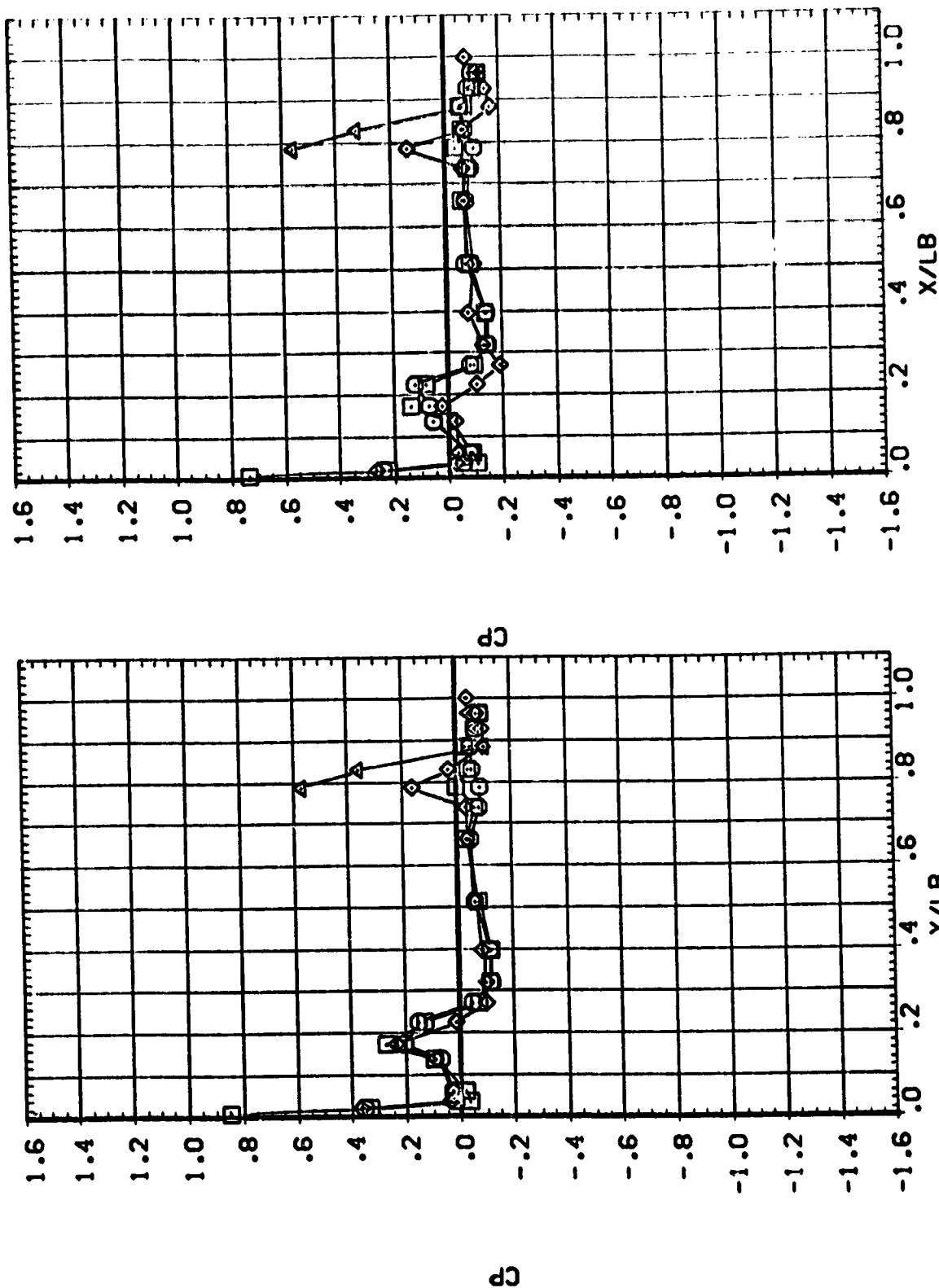
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RB0825)

SYMBOL
 ○ □ ◇ △

PHI 70.000 90.000 120.000 135.000
 BETAT 3.950 8.020
 MACH 2.000

PARAMETRIC VALUES
 ALPHAT .000 ORBINC
 RUDDER 15.000 ELEVEN
 RUOFLR .000



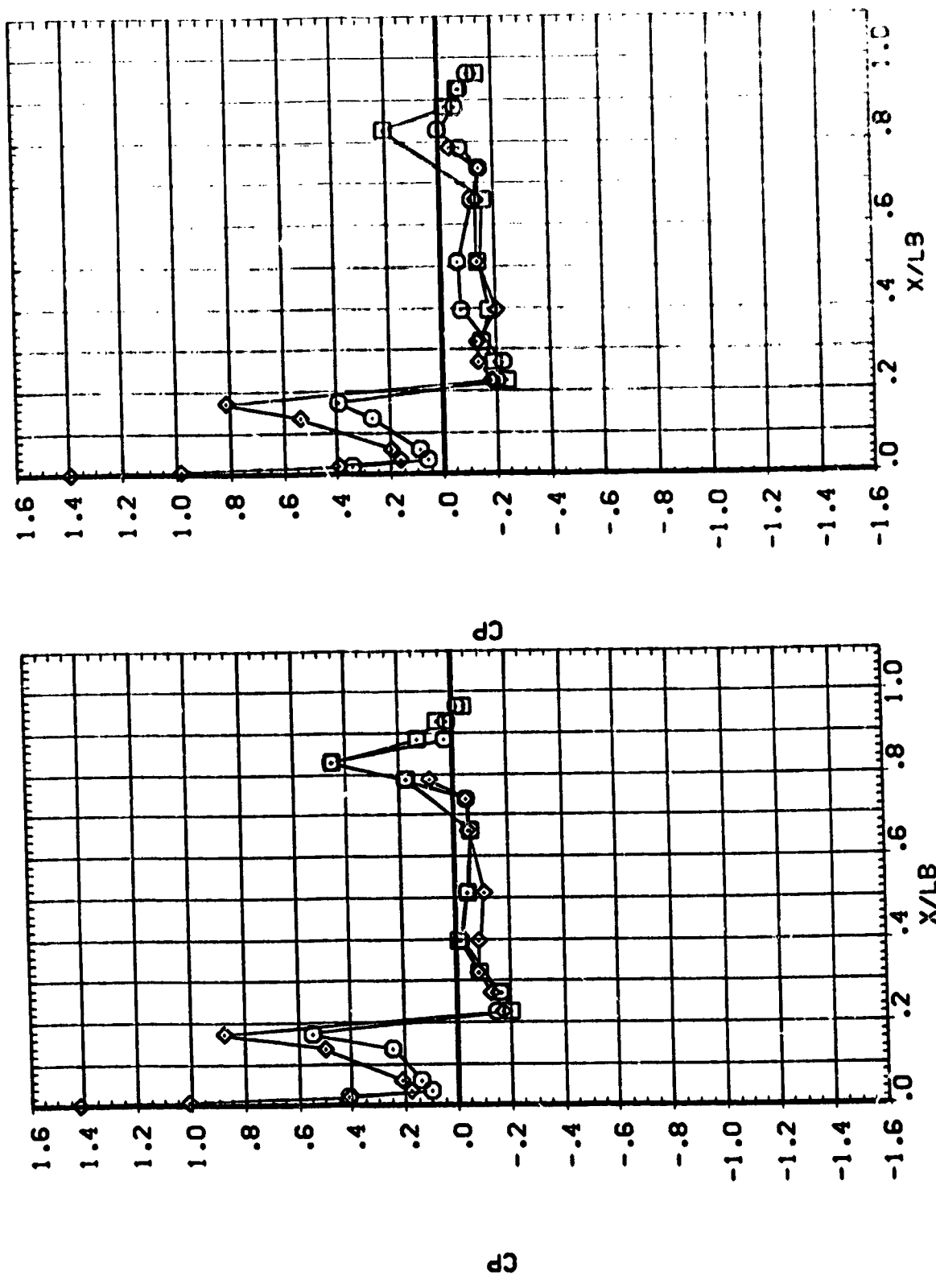
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 97-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RB0825)

SYMBOL
 ○ □ ◇

PHI 150.000 3.950 2.000
 165.000 8.020
 180.000

PARAMETRIC VALUES
 ALPHA 0.000 2.000
 RUDDER 15.000 5.000
 RUJFLR 1.000 1.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

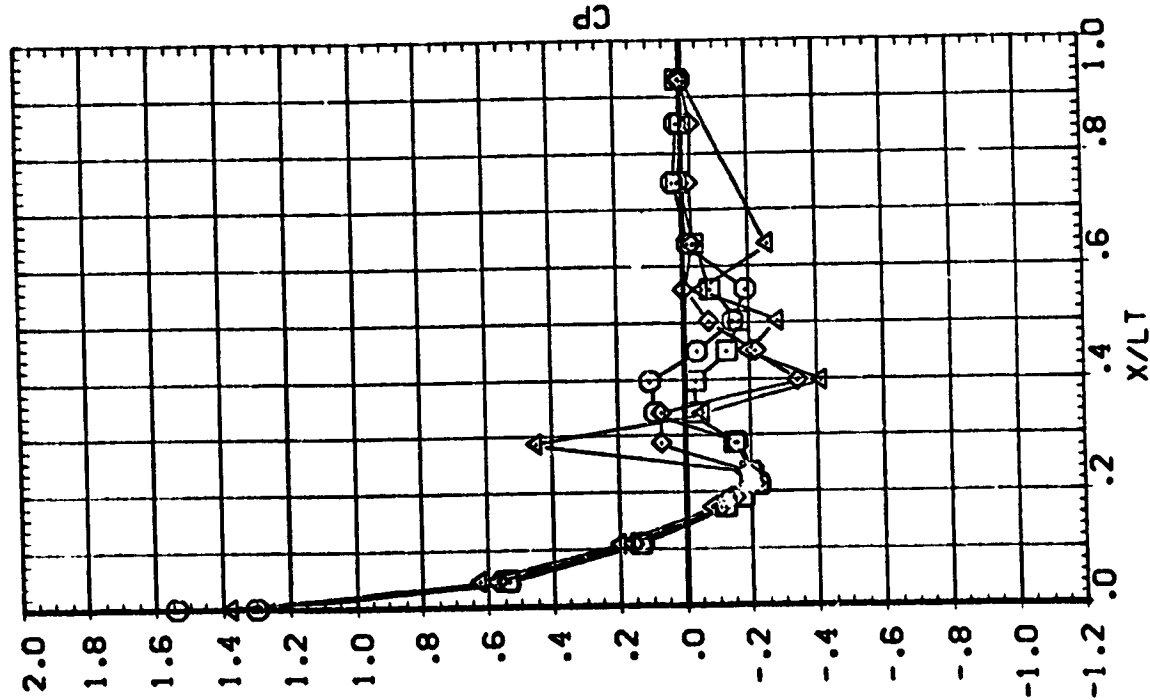
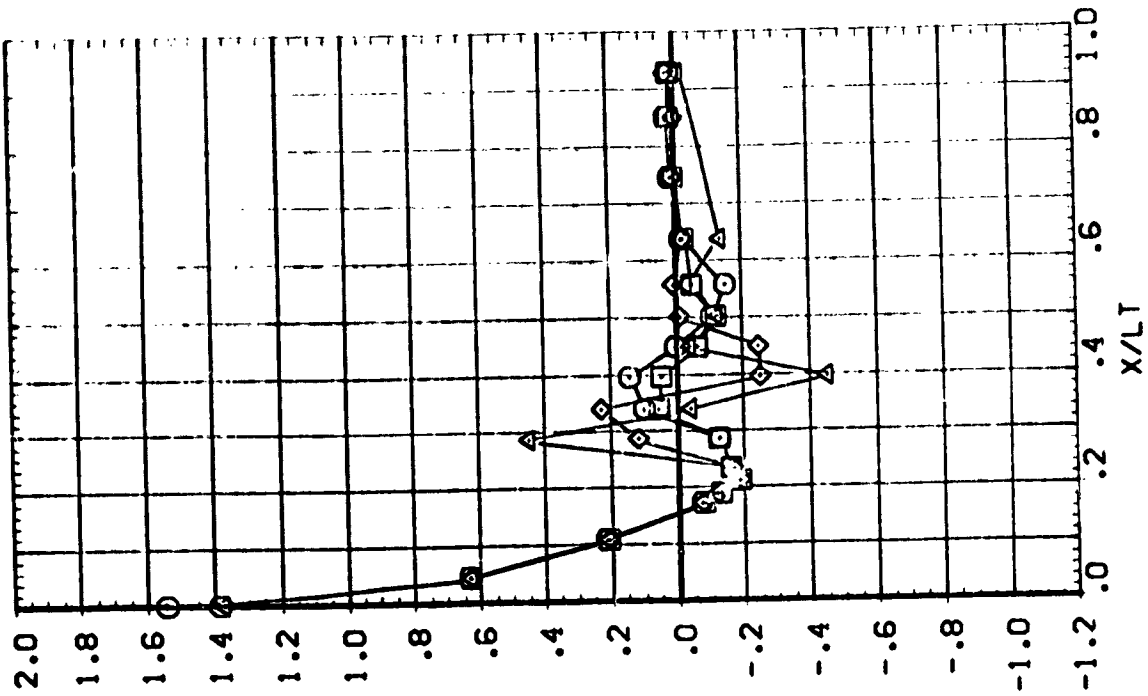
AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK (RB0101)

PHI
 .000
 30.000
 60.000
 90.000

ALPHAT MACH
 -4.250 1.555
 -.120

PARAMETRIC VALUES
 BETAT .000
 RUDDER .000
 RUDDLR .000

500
 1000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

(R00T01)

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

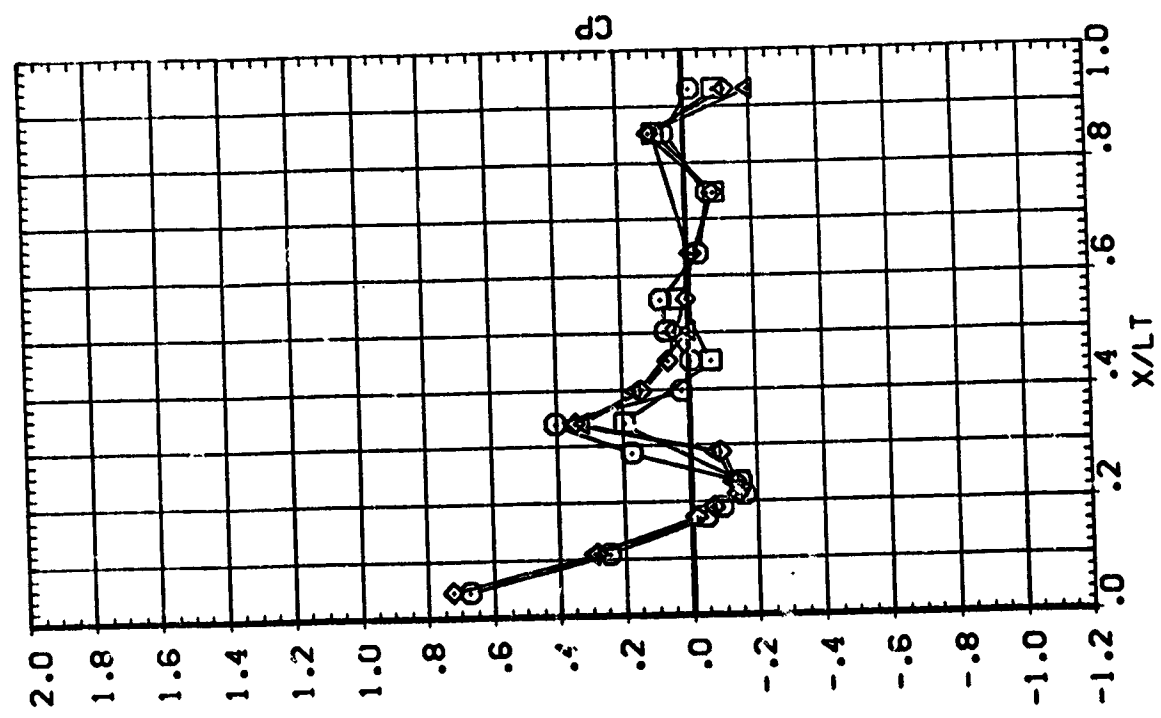
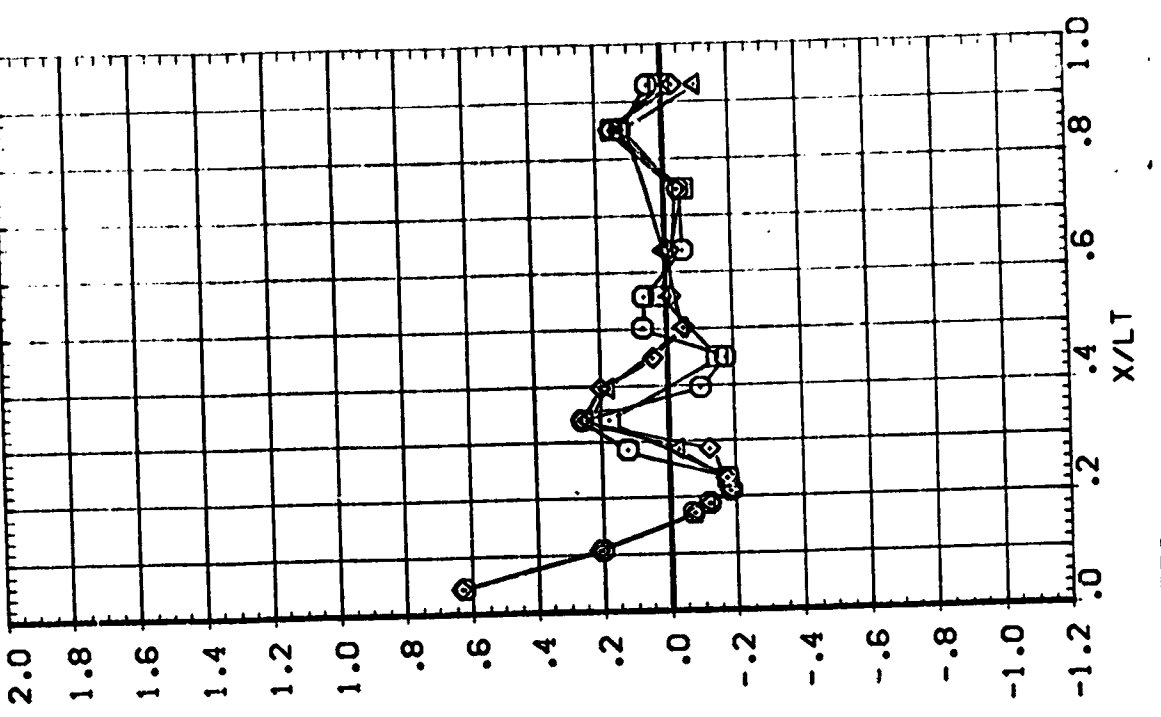
SYMBOL
○ □ ◇ △

PHI
120.000
135.000
150.000
165.000

ALPHAT
-4.250
-.120

MACH
1.555

PARAMETRIC VALUES
BETAT .000
RUDDER .000
RUJFLR .000
CRBINC .500
ELEVON .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

(RBOTC1)

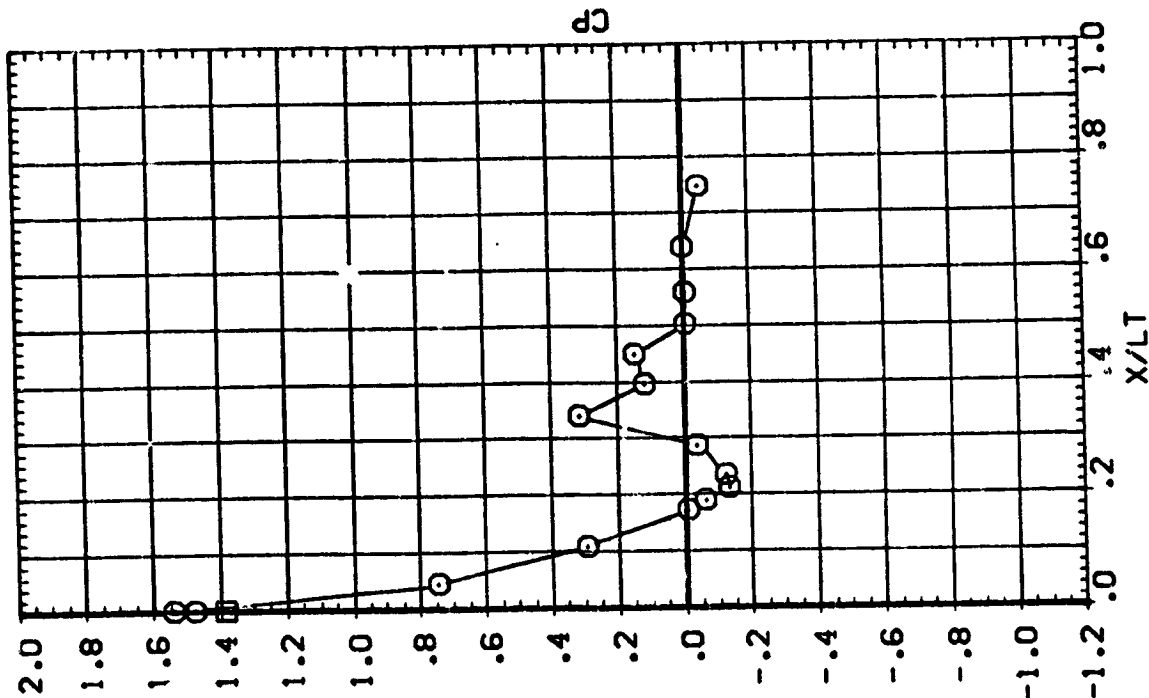
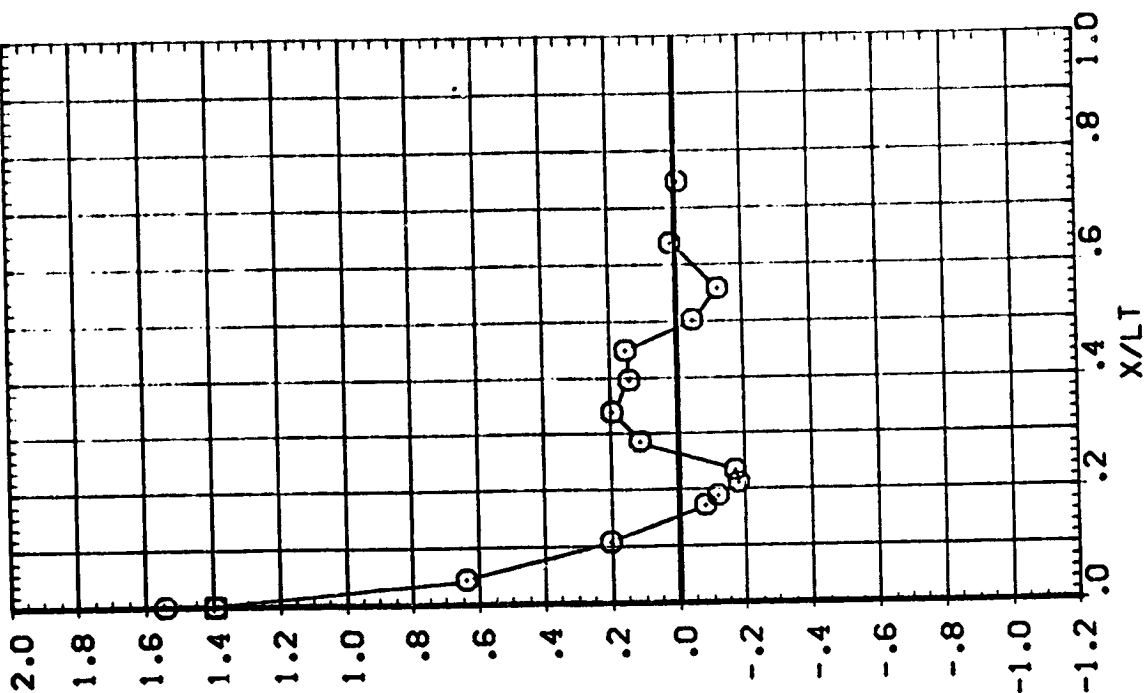
SYMBOL
□

PHI 180.000
270.000

ALPHAT -4.250
-.120

MACH 1.555

PARAMETRIC VALUES
BETAT .000 DRBINC .500
R000R .000 ELEVON .000
R000LR .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

REF: 1011

TANK

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL

SYMBOL
○ □ ◇ △

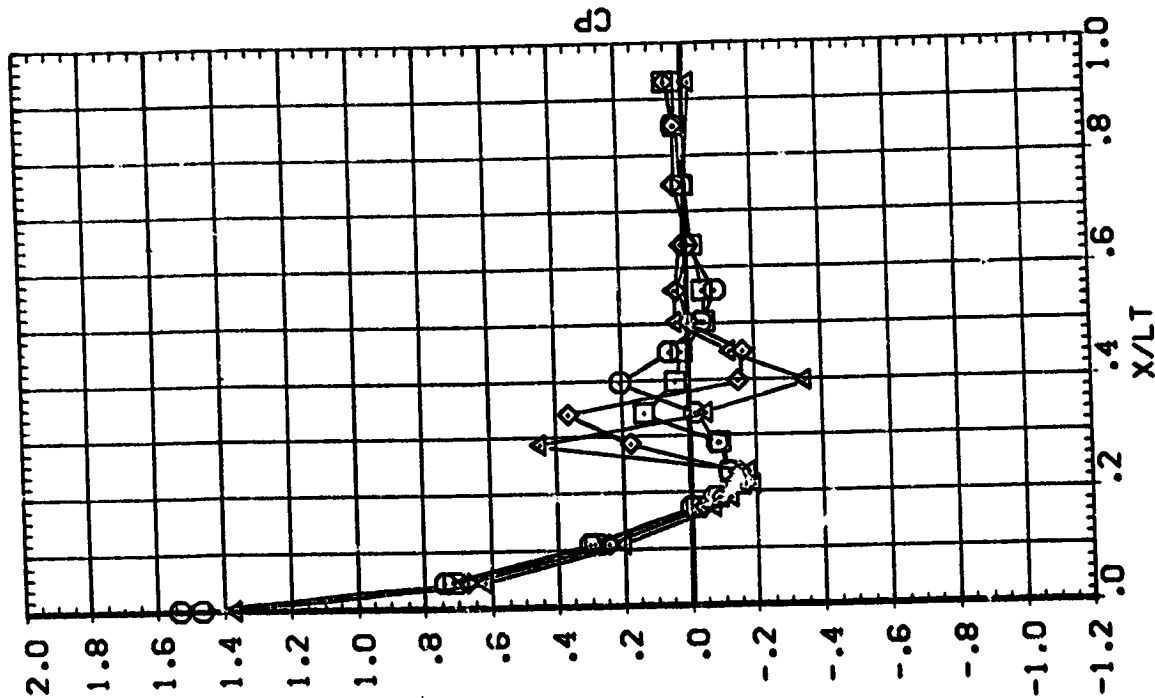
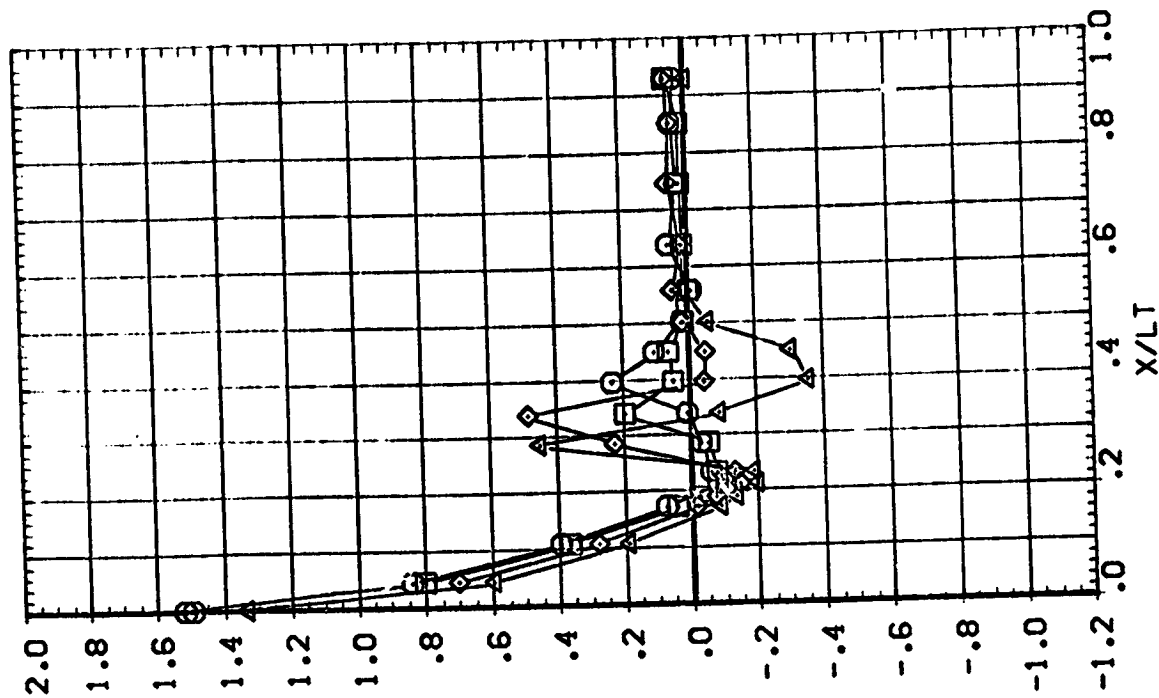
PHI .000
30.000
60.000
90.000

ALPHA 4.010
8.130

MACH 1.555

PARAMETRIC VALUES
BETAT .000
RUDER .000
RUDFLR .000

ORBITC .500
ELEVON .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

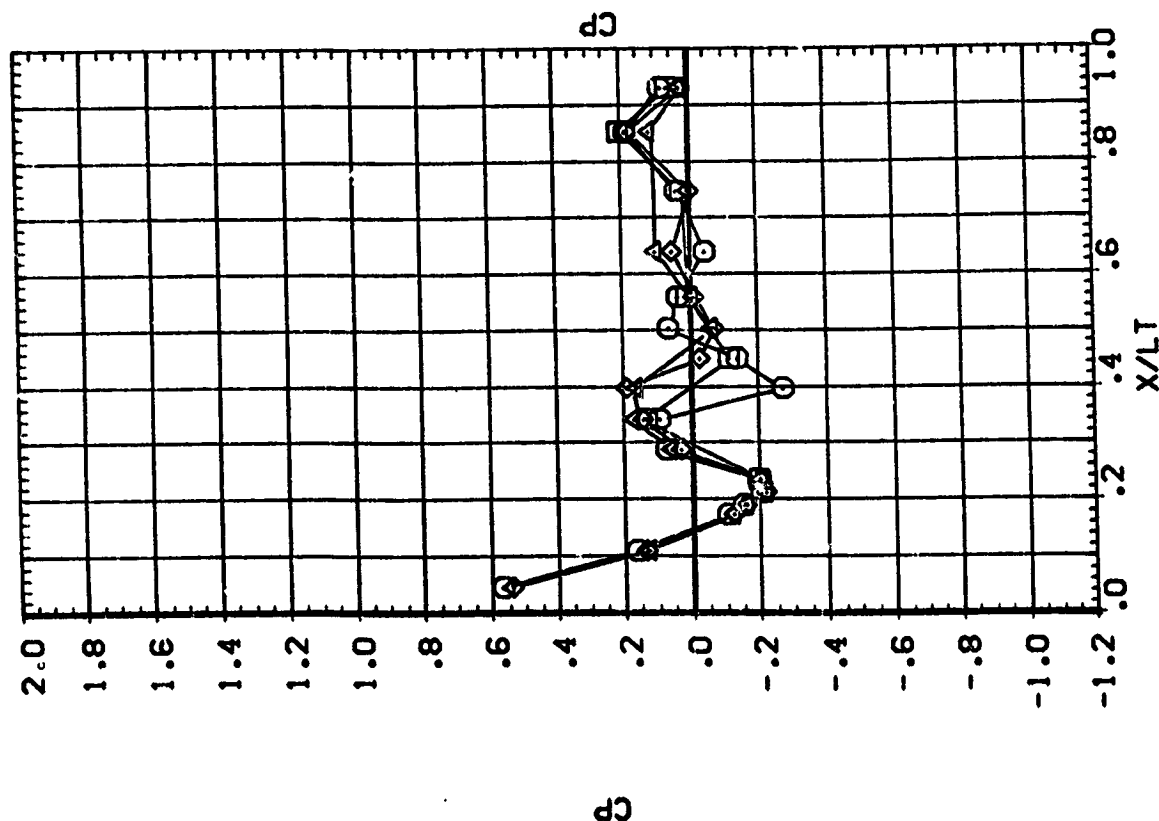
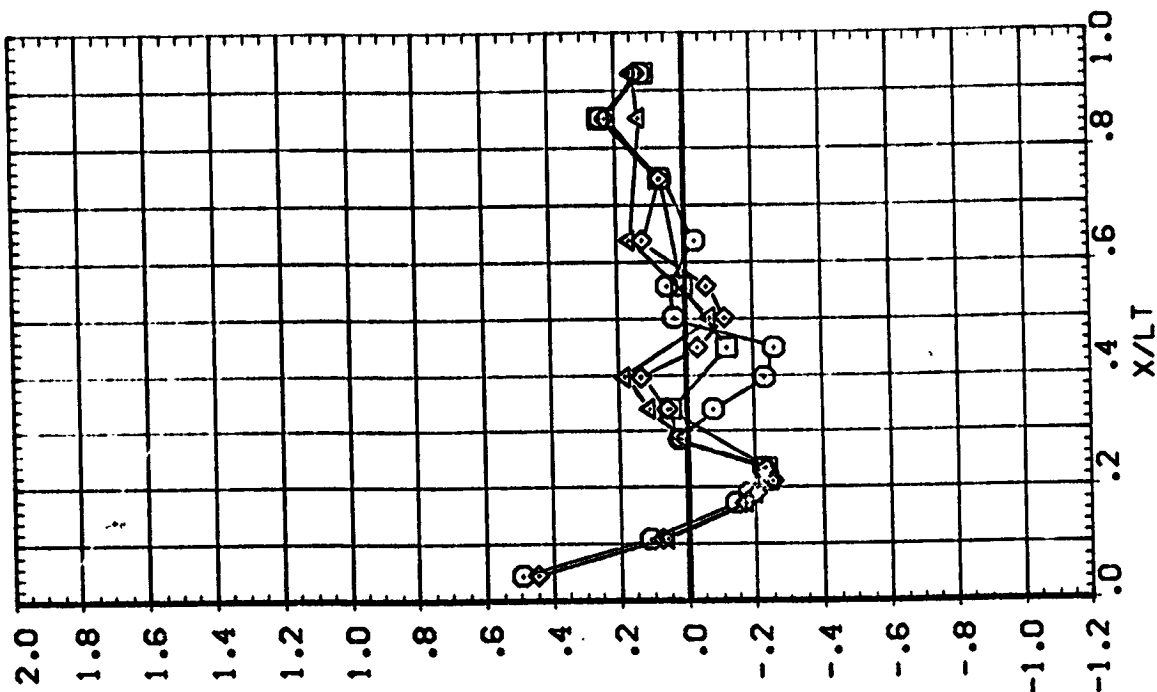
SYMBOL
 ○ □ ◇ △

PHI 120.000
 135.000
 150.000
 165.000

ALPHAT 4.010
 8.130

MACH 1.555

PARAMETRIC VALUES
 BETAT .000 ORBINC .500
 RUTTER .000 ELEVON .000
 RUFLR .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

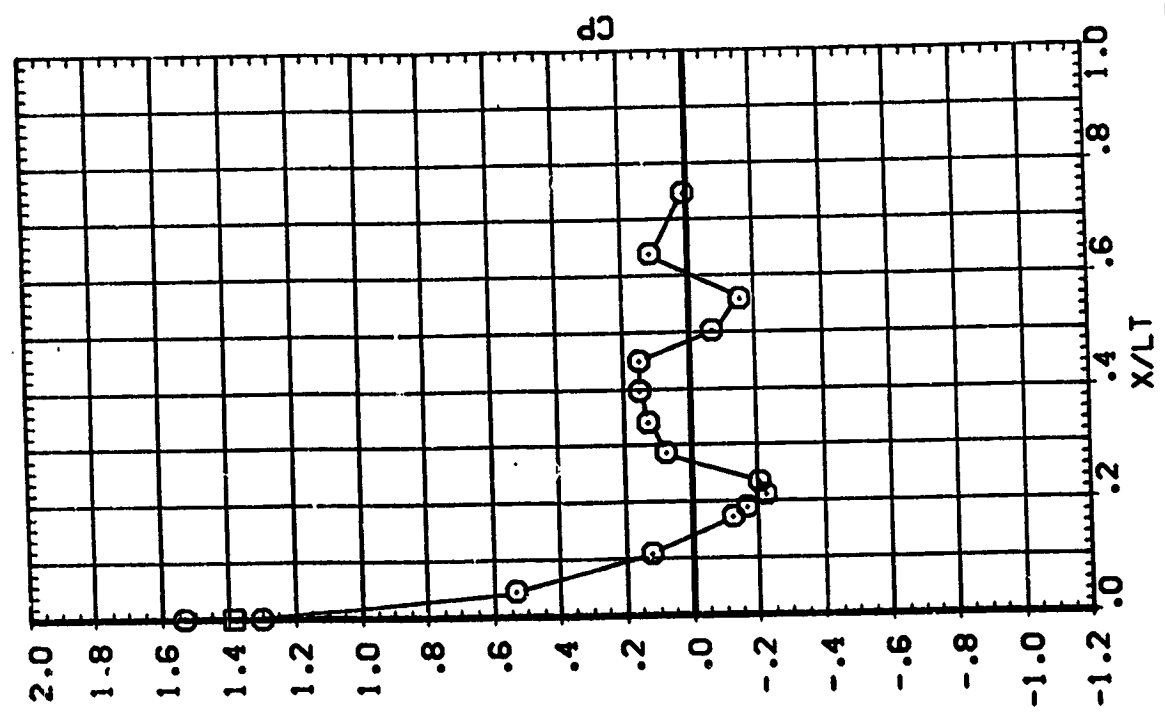
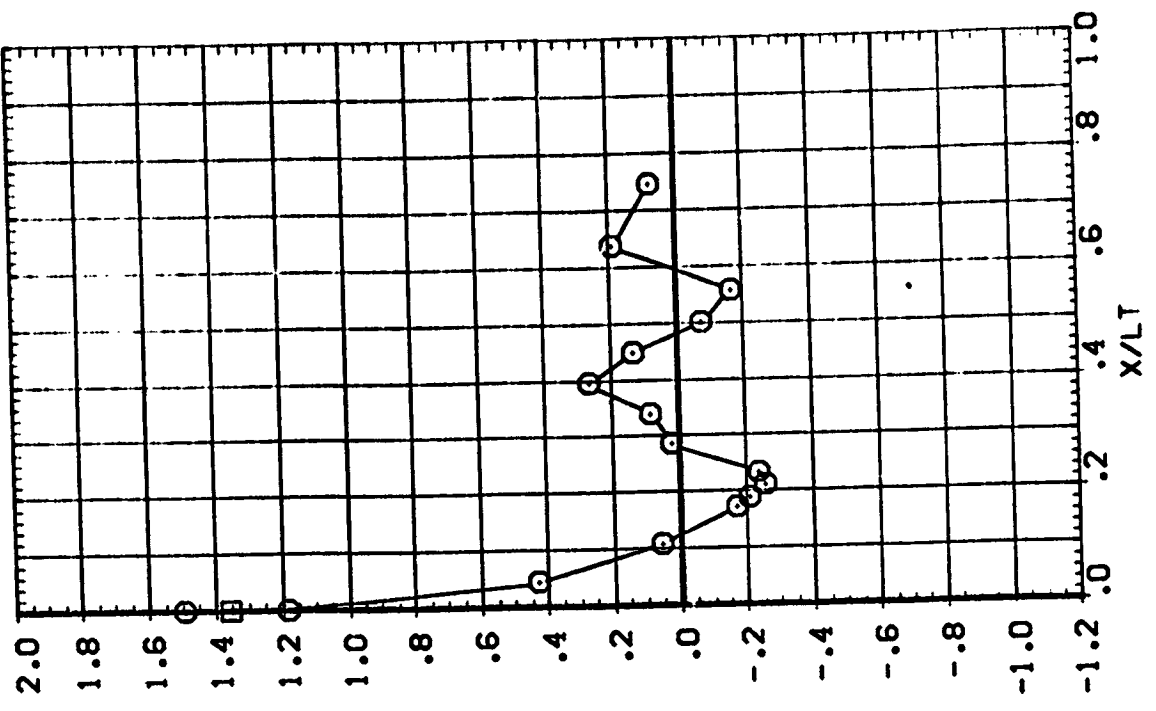
(R001011)

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

SYMBOL
○
□

PHI 180.000
270.000
ALPHAT 4.010
6.130
MACH 1.555

PARAMETRIC VALUES
BETAT .000
RUDGER .000
RUDFLR .000
CRBINC .500
ELEVON .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



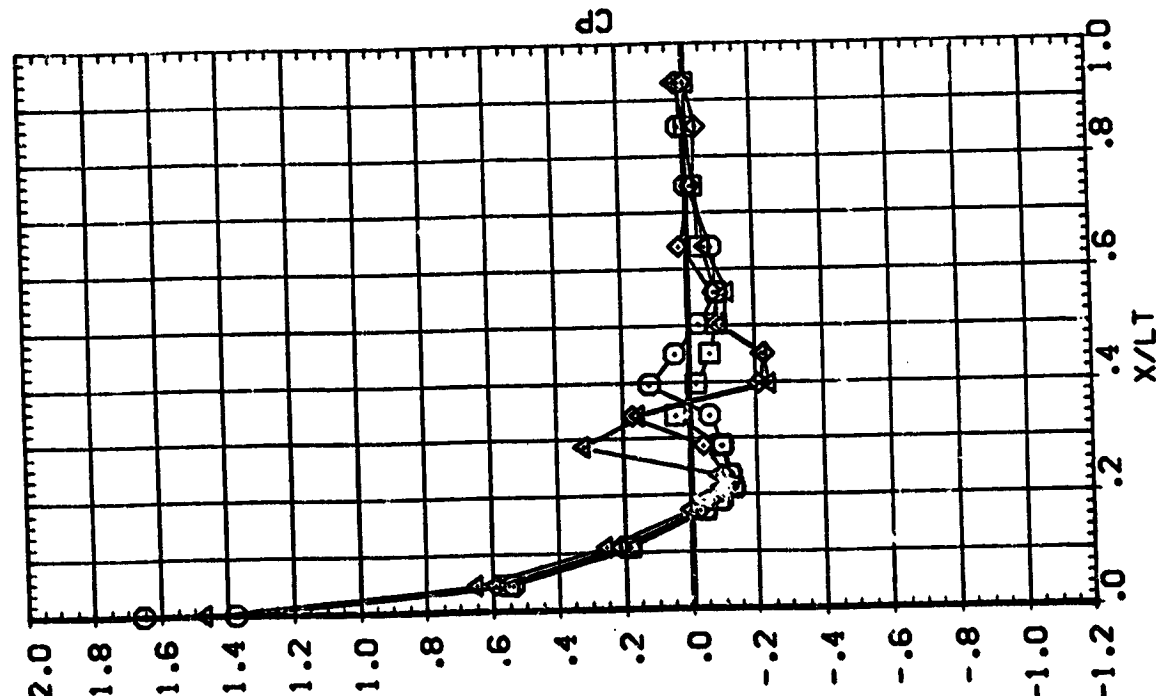
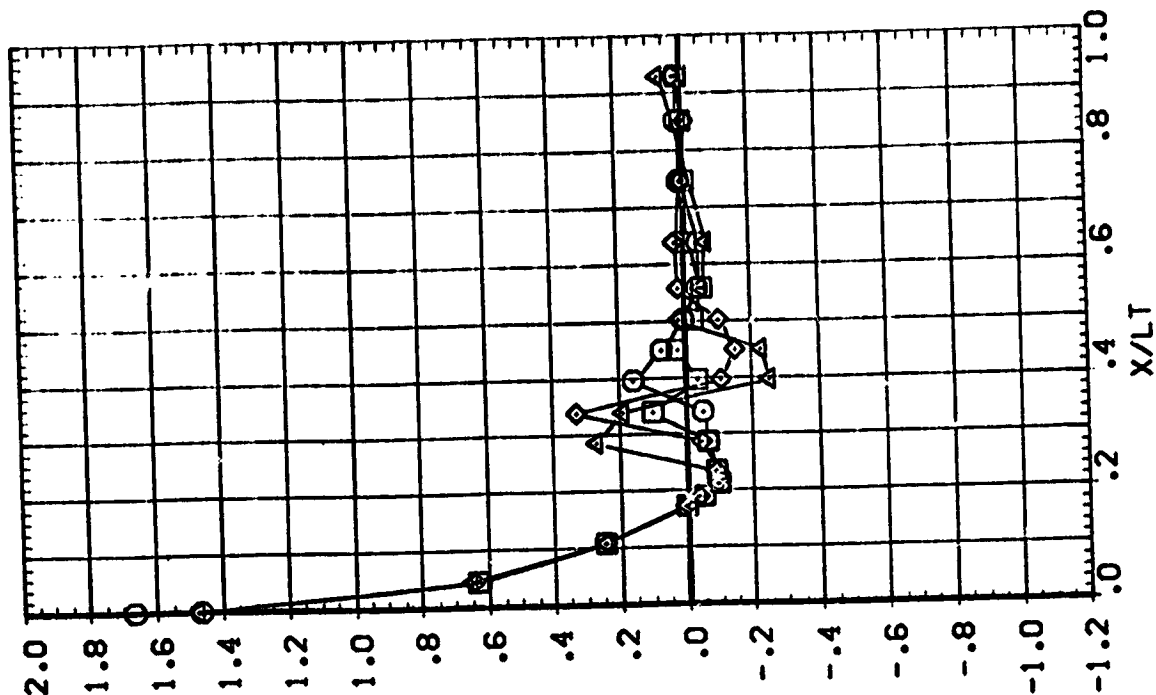
(RB0T01)

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

SYMBOL PH1
O 30.000
□ 60.000
◇ 90.000

ALPHAT MACH
-4.250 2.000
-.160

PARAMETRIC VALUES
BETAT .000
RJDOR .000
RJDOR .000
RJDOR .000
SPBINC .500
ELEVON .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

(R80T01)

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

SYMBOL
○ □ ◇ △

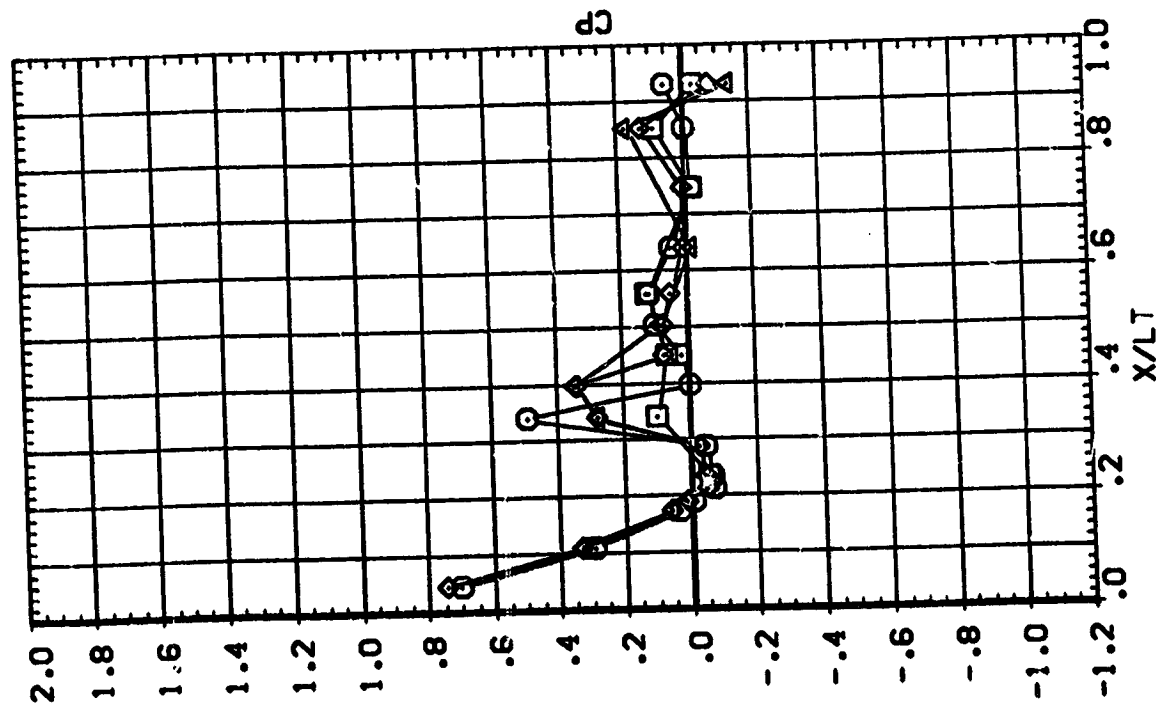
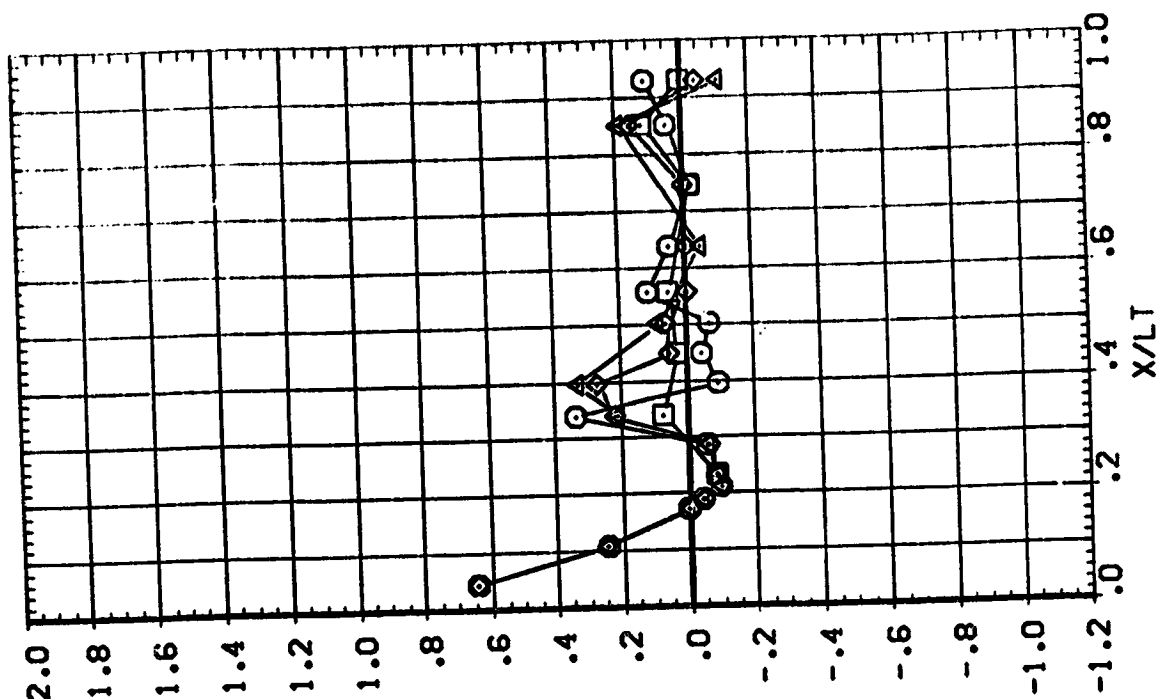
PHI 120.000
135.000
150.000
165.000

ALPHA 4.250
-.160

MACH 2.000

PARAMETRIC VALUES
BETAT .000
RUDDER .000
RUDDLR .000

CRSINC .500
ELEVON .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

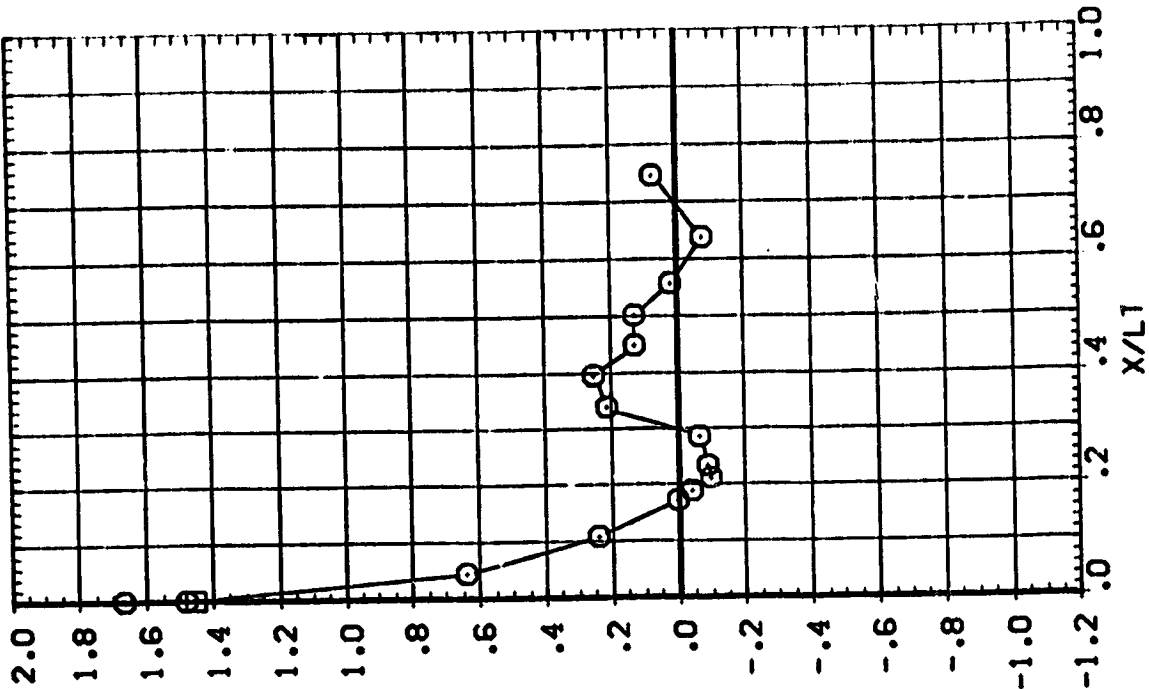
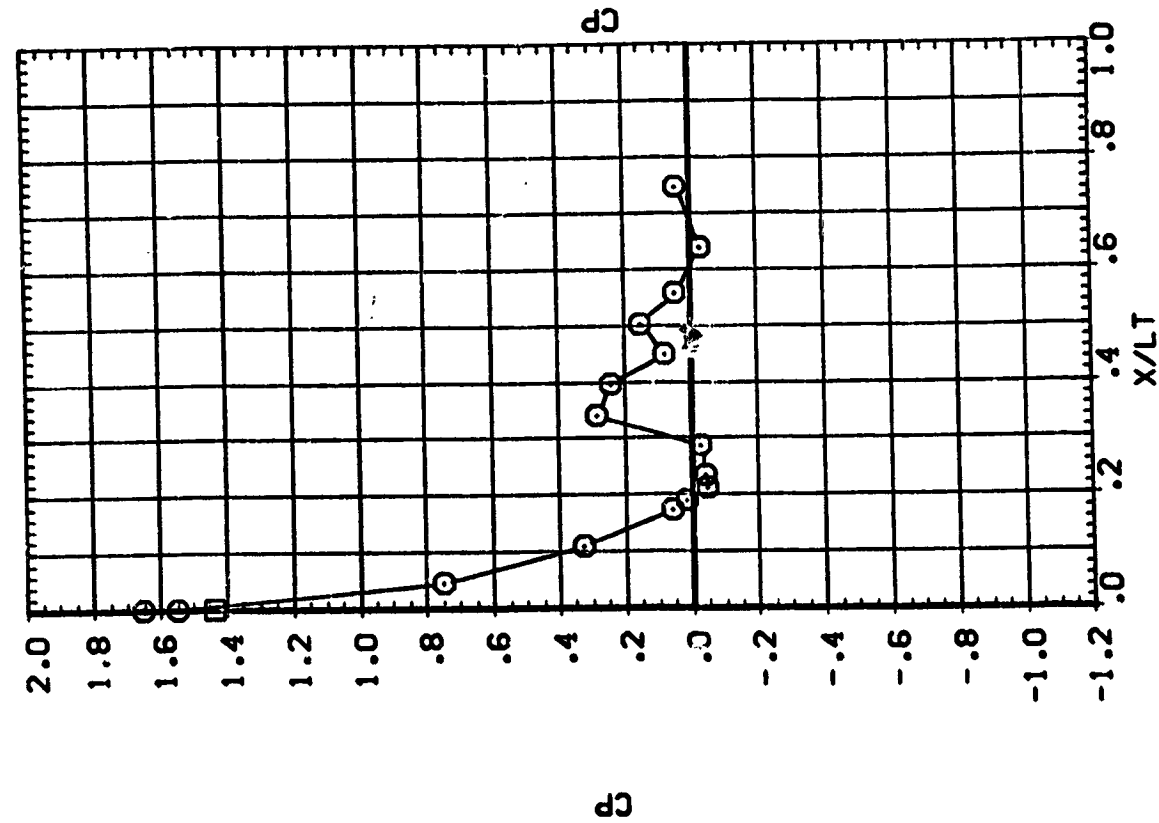
III

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK (RB0T01)

SYMBOL
 ○
 □

PHI 180.020
 270.000
 ALPHAT -4.250
 -.160
 MACH 2.000

PARAMETRIC VALUES
 BETAT .000
 RJDDE .000
 RJDFLR .000
 CRBINC .500
 ELEVCN .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

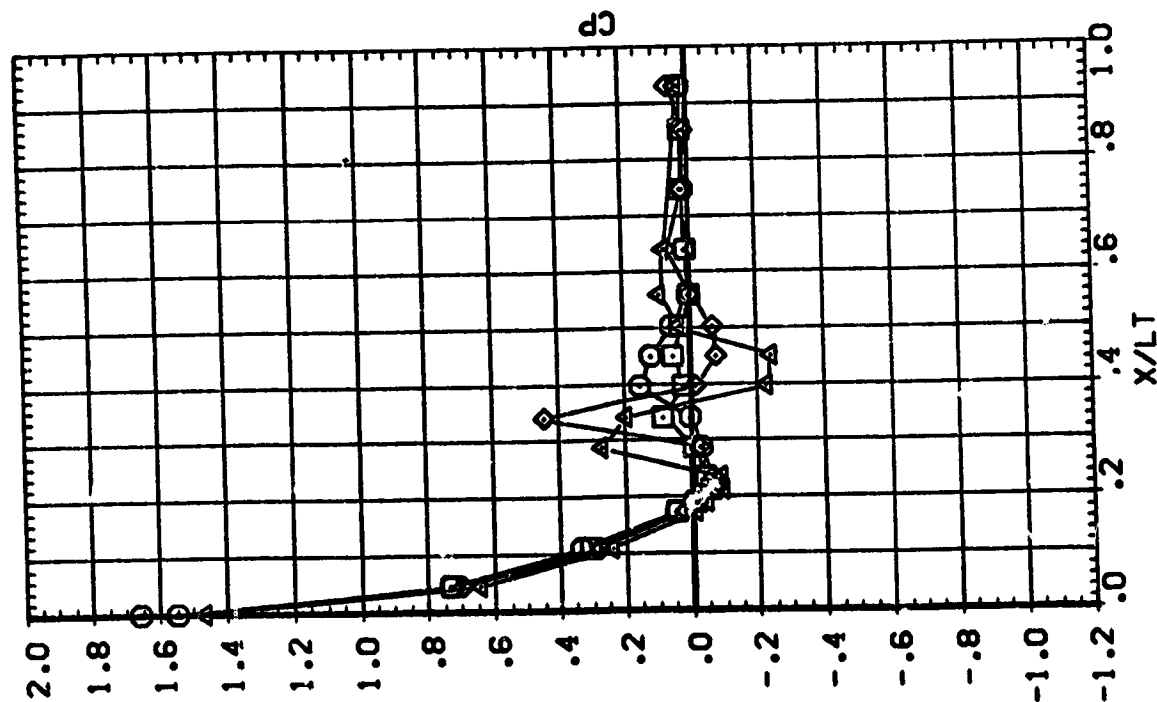
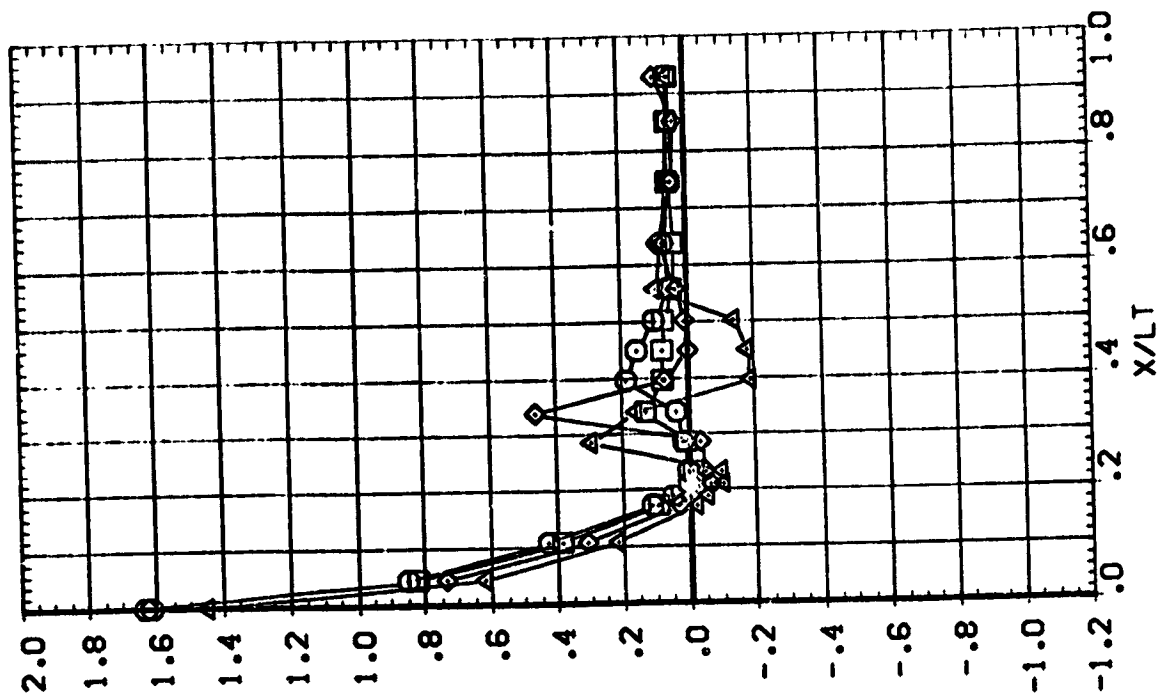
(R83101)

AMES 97-707 IAS 02A + S3 + T9 EXTERNAL TANK

PARAMETRIC VALUES
BETAT .000 CRBINC .500
RUDDER .000 ELEVON .000
RUDLER .000

PHI .000 ALPHAT MACH 2.000
30.000 8.000
60.000
90.000

SYMBOL
○ □ ◇ △



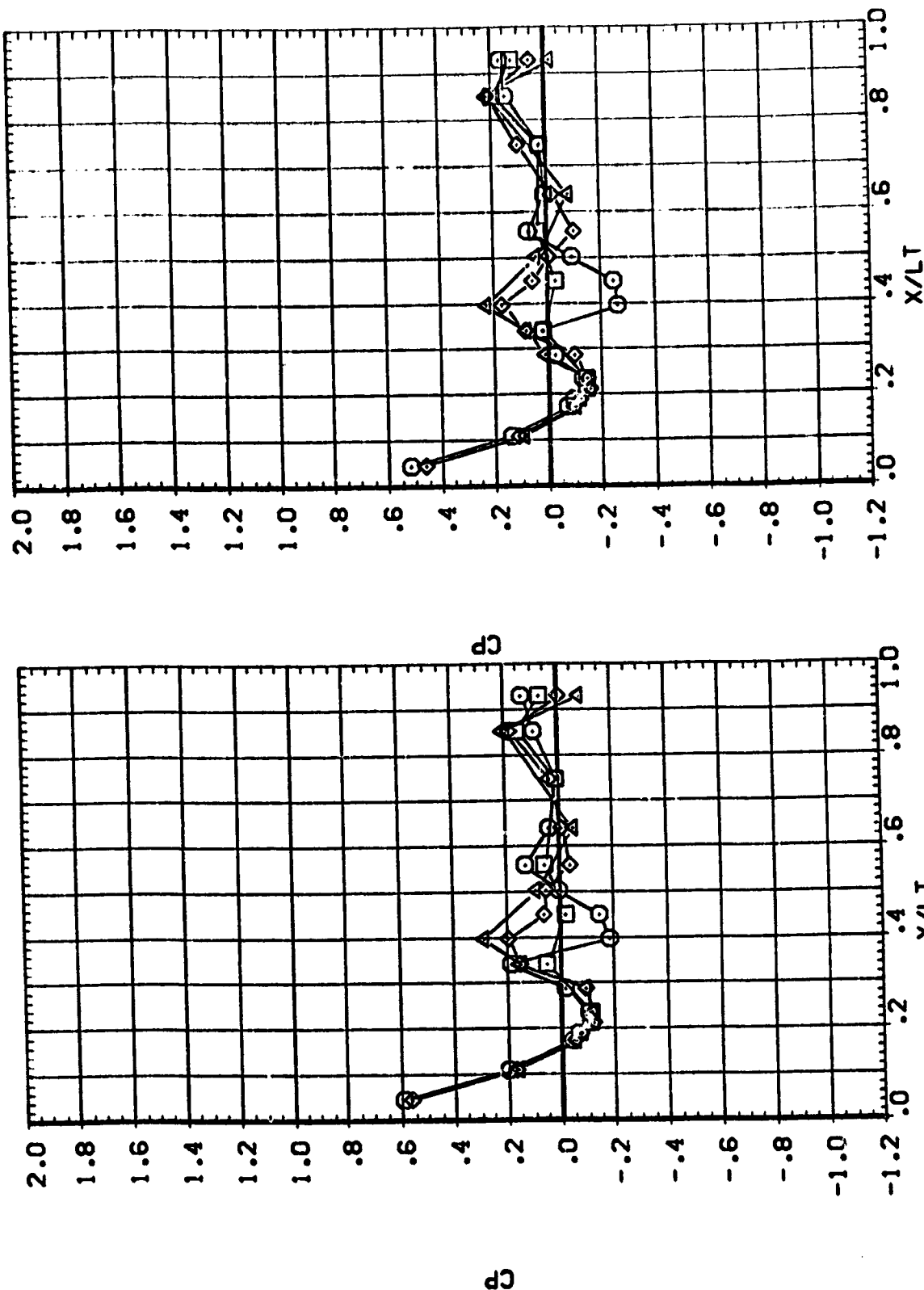
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

III

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK (RB0101)

PHI	ALPHAT	MACH	BETAT	PARAMETRIC VALUES
120.000	3.930	2.000	RJ00R	.000
135.000	8.020		RJ0FLR	.000
150.000				.000
165.000				.500

SYMBOL
 O
 □
 ◇
 △

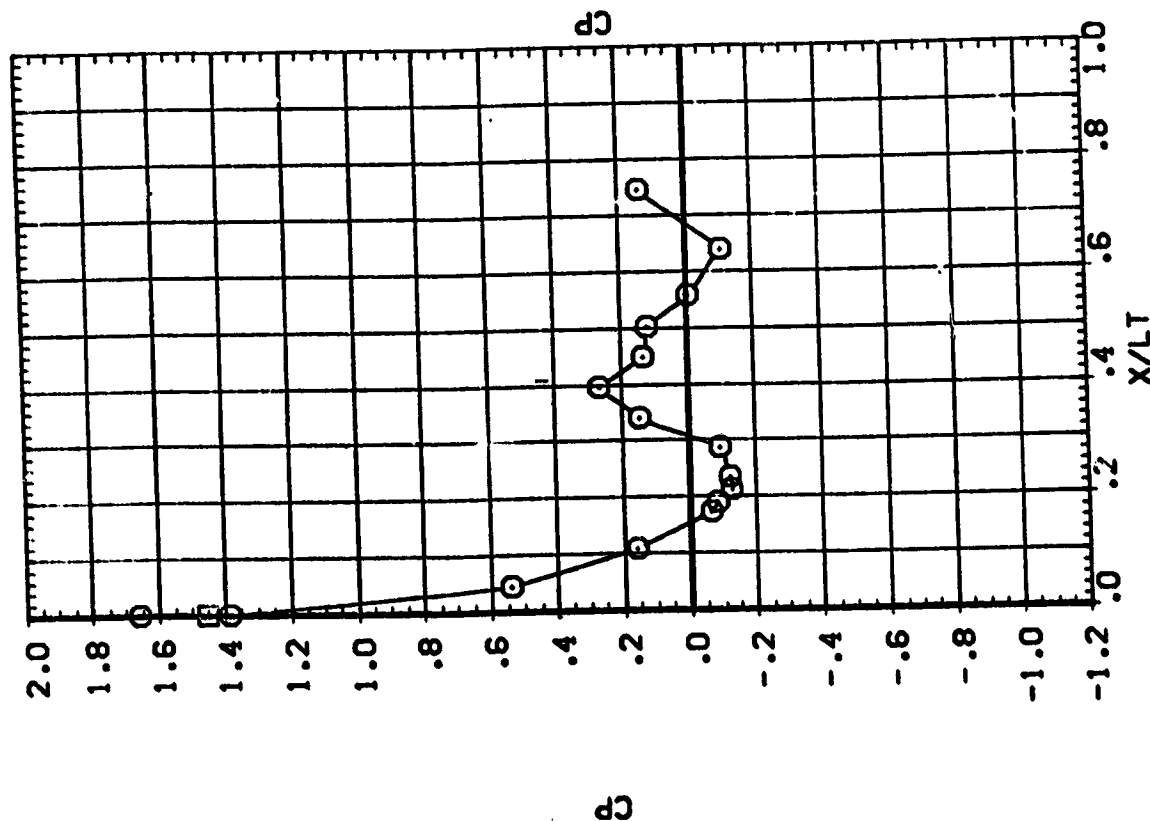
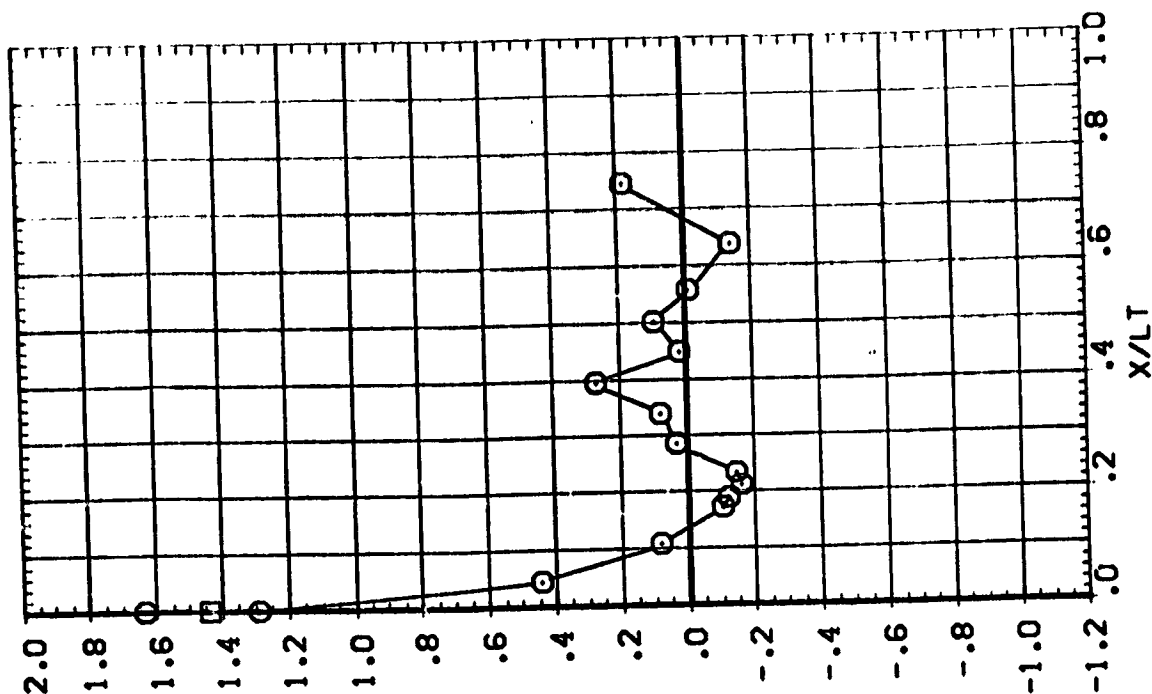


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

(RB0101)

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

SYMBOL	PHI	ALPHAT	MACH	PARAMETRIC VALUES
○	180.000	3.930	2.000	BETAT
□	270.000	8.020		RJDOFLR
				.000
				CRBINC
				.000
				ELEVON
				.000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK (R80T02)

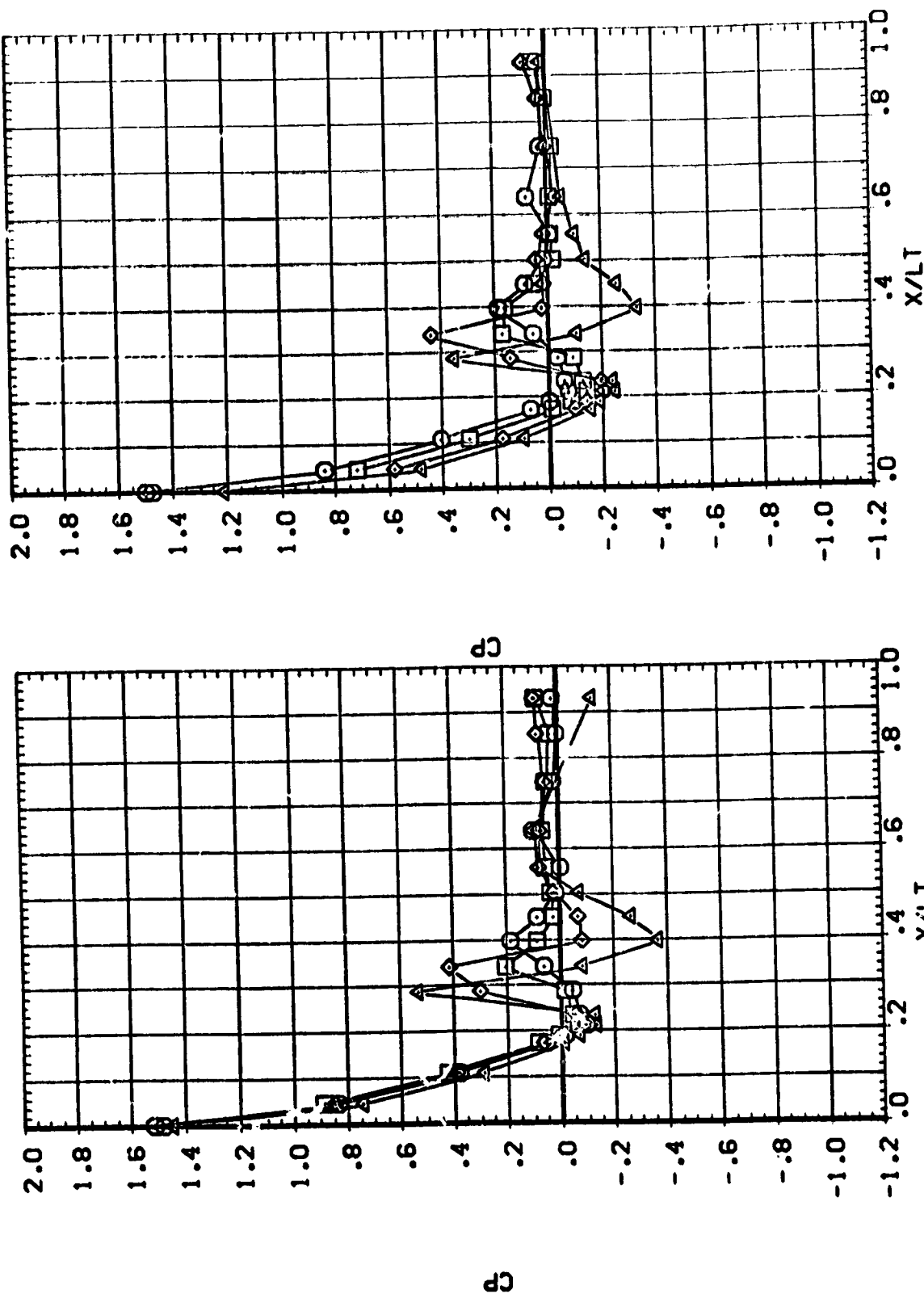
SYMBOL
○
□
◇
△

PHI
.000
30.000
60.000
90.000

BETAT
-5.100
5.110

MACH
1.555

PARAMETRIC VALUES
ALPHAT 8.000
R2DER .000
R2STLR .000
CRBINC .500
ELEVON .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

[RB0T02]

AMES 97-707 1A9 G2A + S3 + T9 EXTERNAL TANK

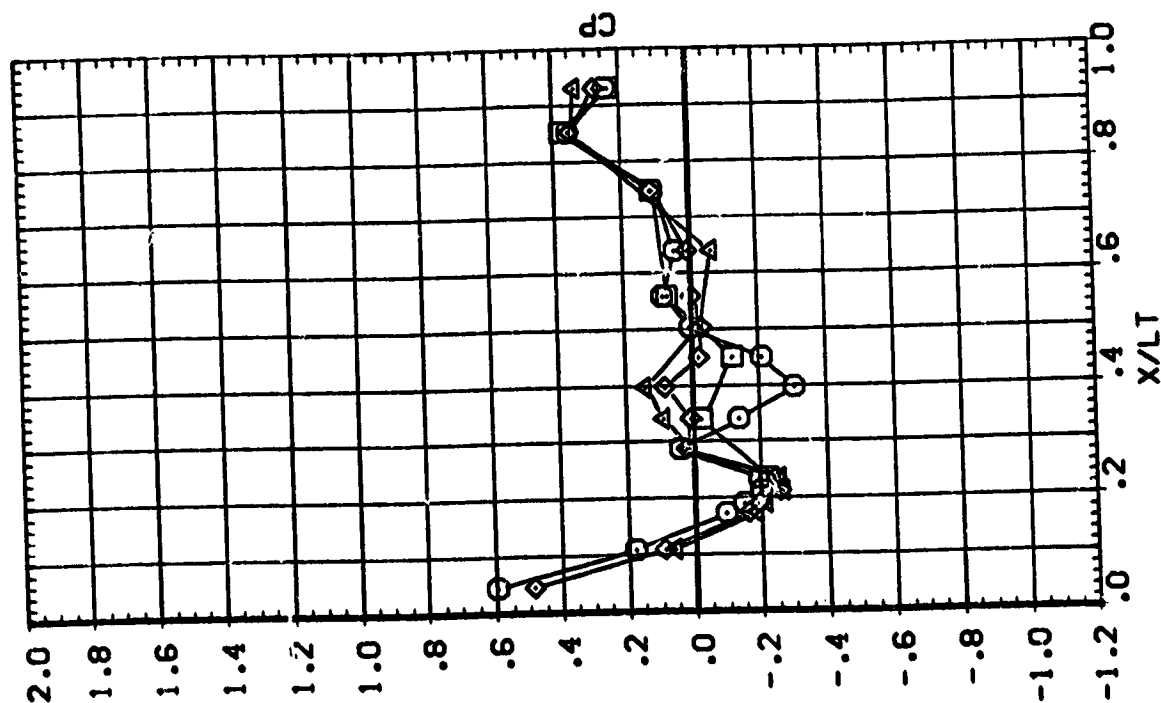
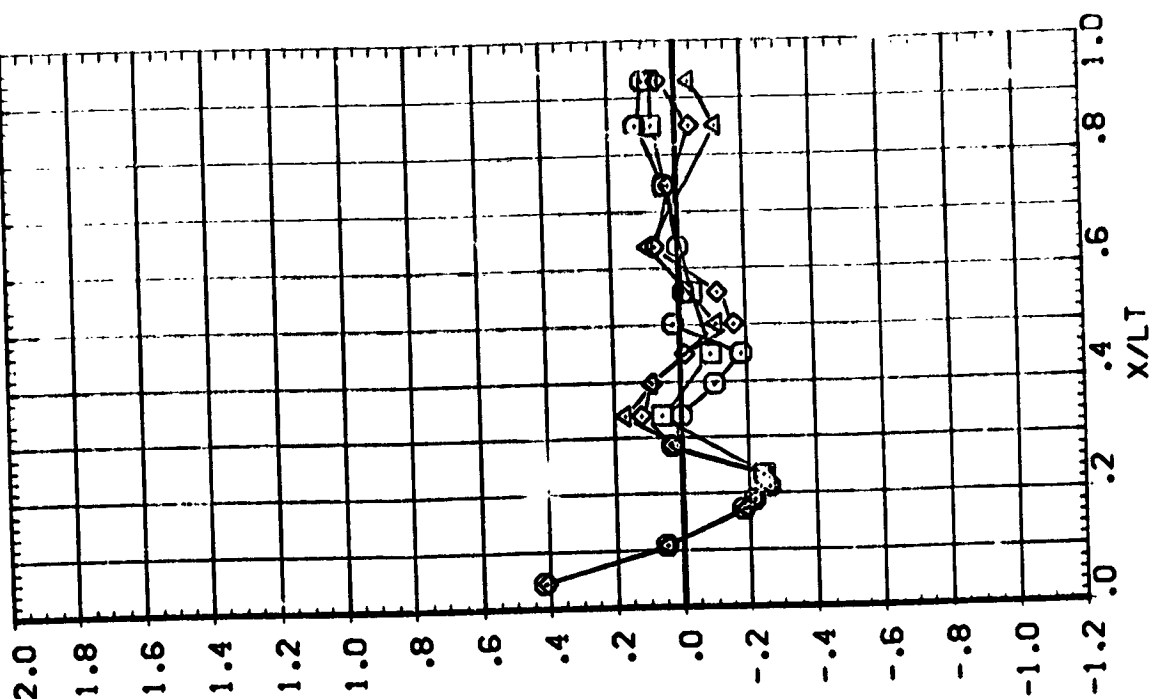
SYMBOL
○
□
◇
△

PHI
120.000
135.000
150.000
165.000

BETAT
-5.100
5.110

MACH
1.555

PARAMETRIC VALUES
ALPHAT
R00ER
R0DFLR
8.000
1.000
1.000
999.999
ELEVON
.500
.000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 57-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBC02)

SYMBOL
□

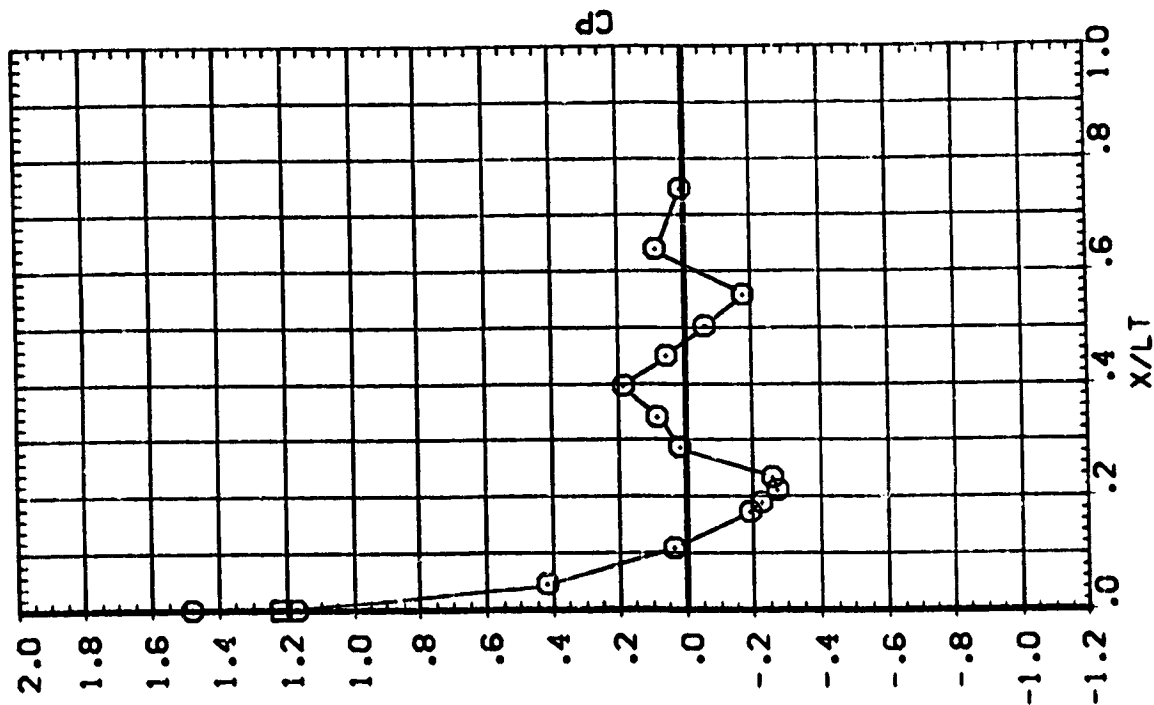
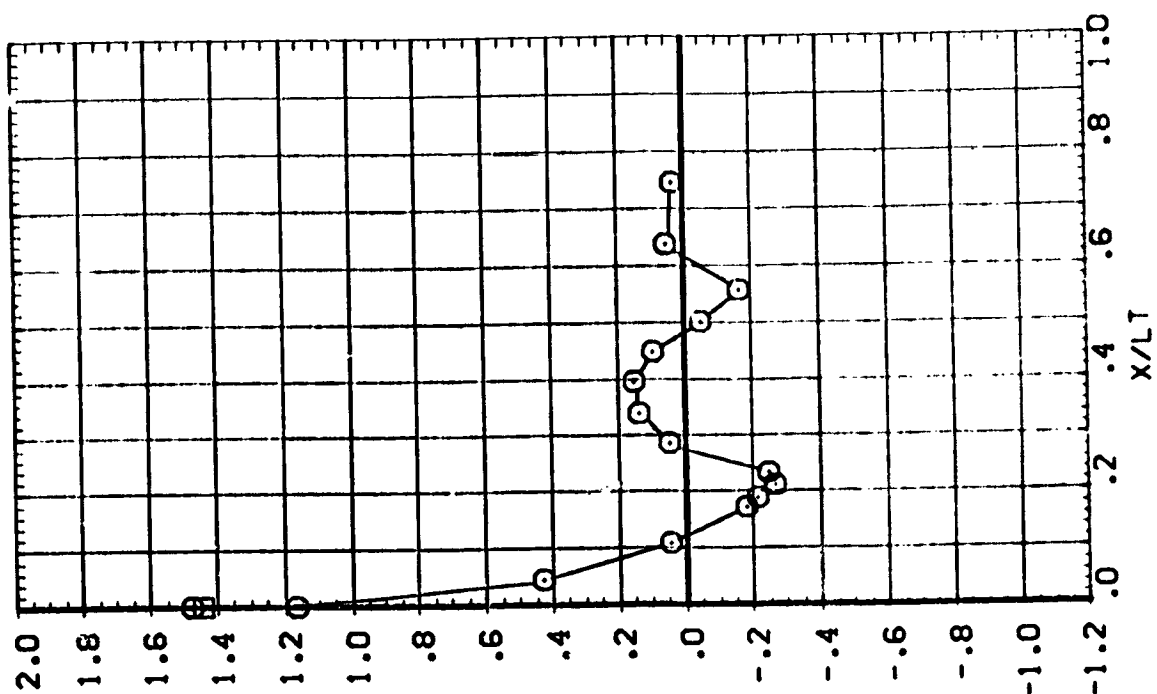
PHI 180.000
270.000

PZTAT -5.100
5.110

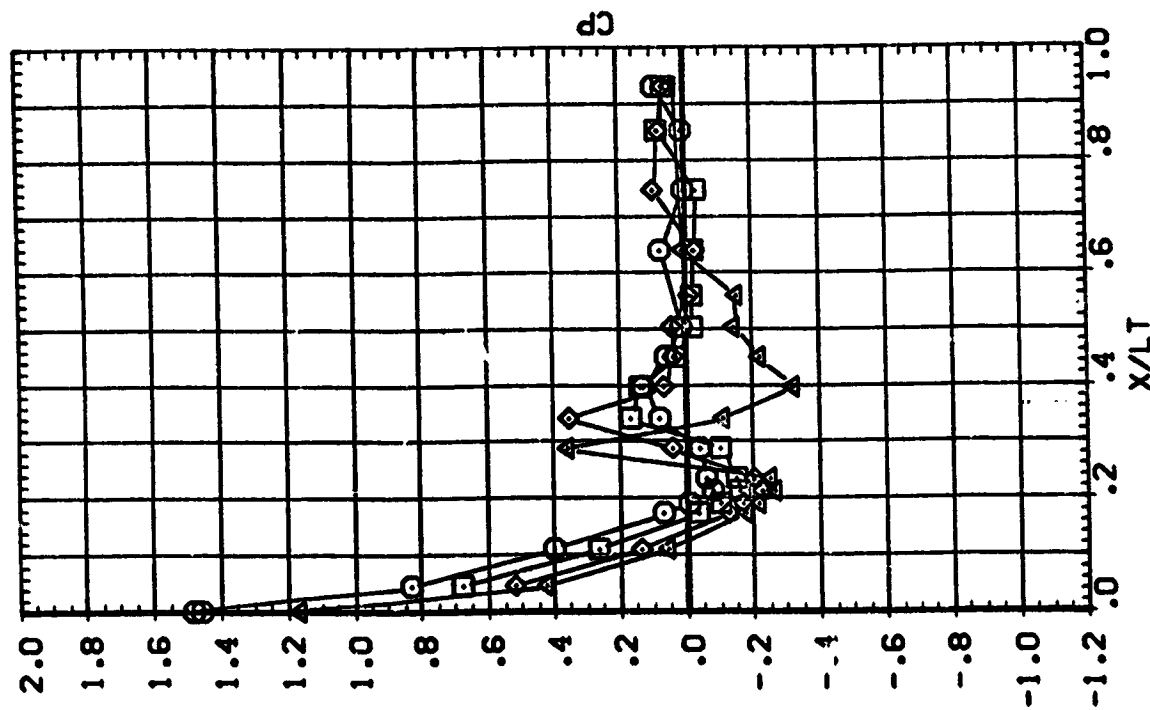
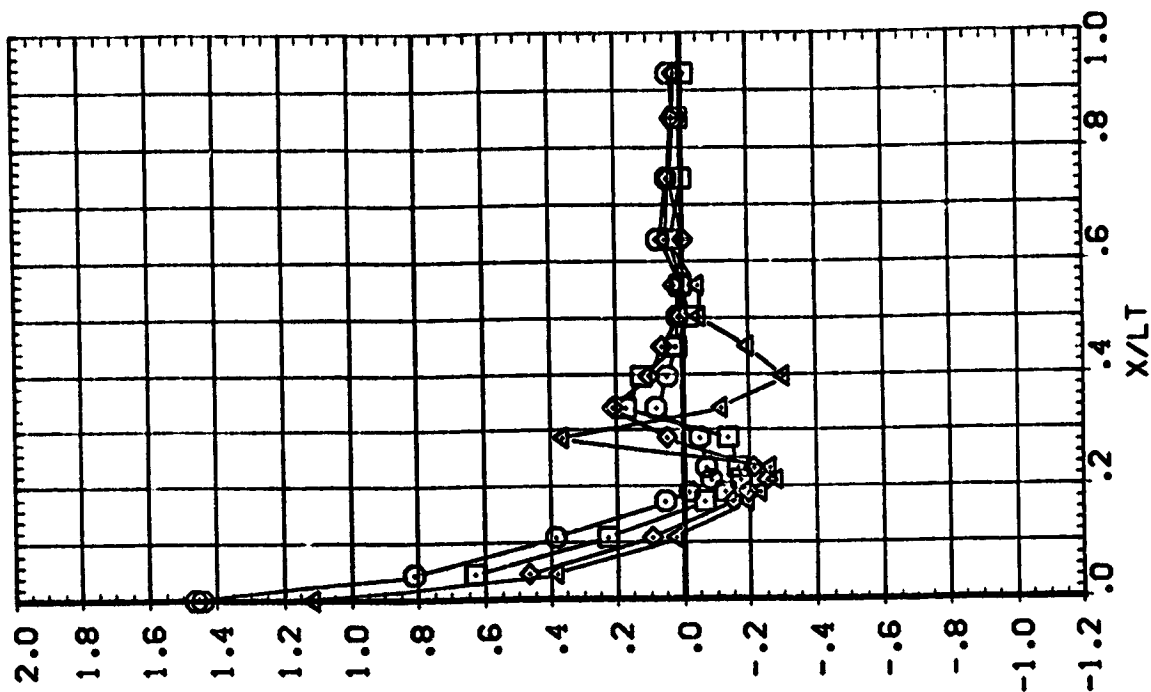
MACH 1.555

PARAMETRIC VALUES
ALPHAT 8.000
RUDGER .000
RUDFLR .000

.500
.000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

(n)

(R80104)

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

SYMBOL
○ □ ◇ △

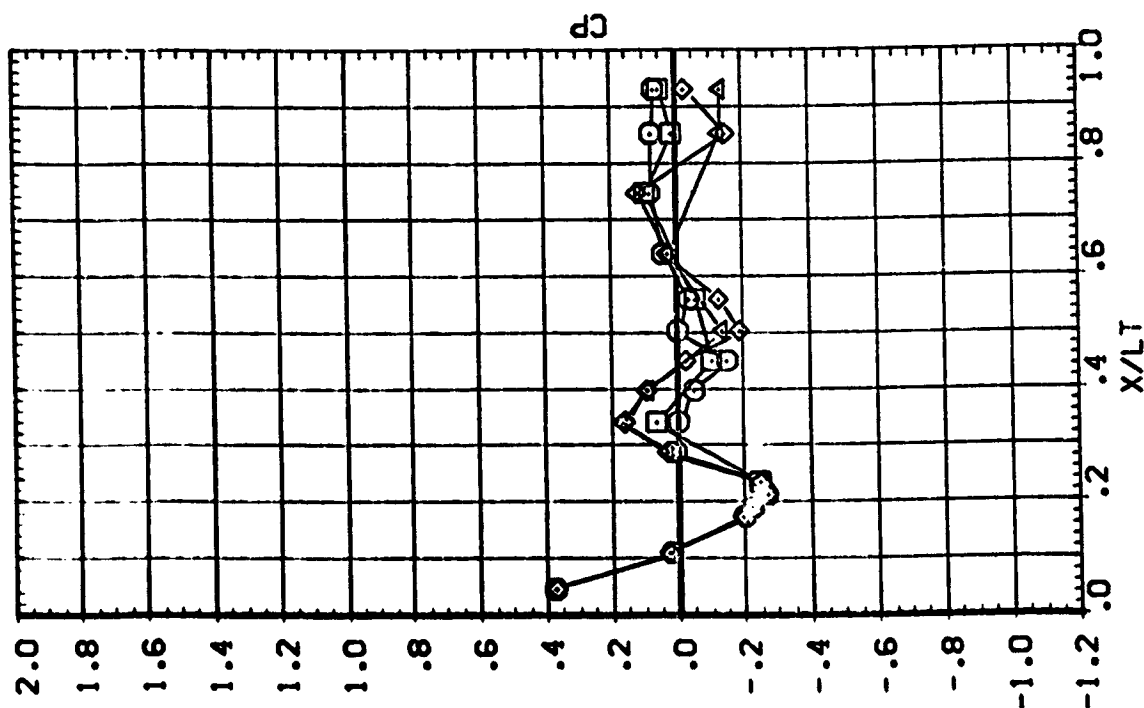
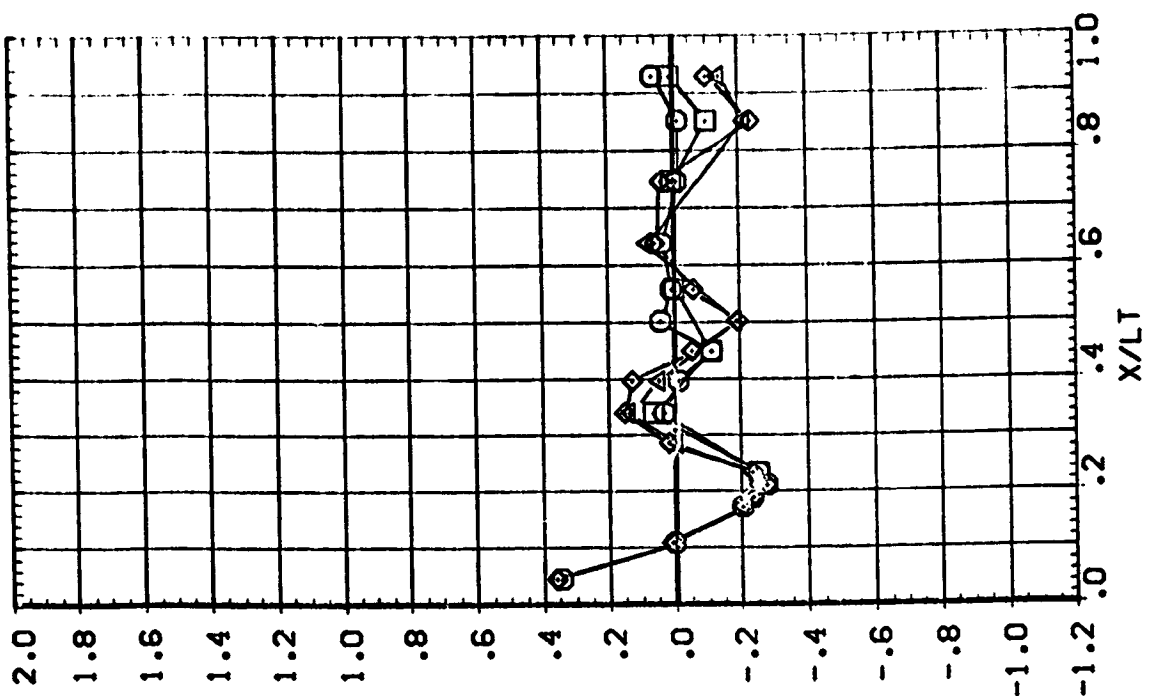
PHI
120.000
135.000
150.000
165.000

BETA
7.140
9.190

MACH
1.555

PARAMETRIC VALUES
ALPHA 8.000
RUDDER .000
RUDFLR .000

.500
.000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

(1800102)

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

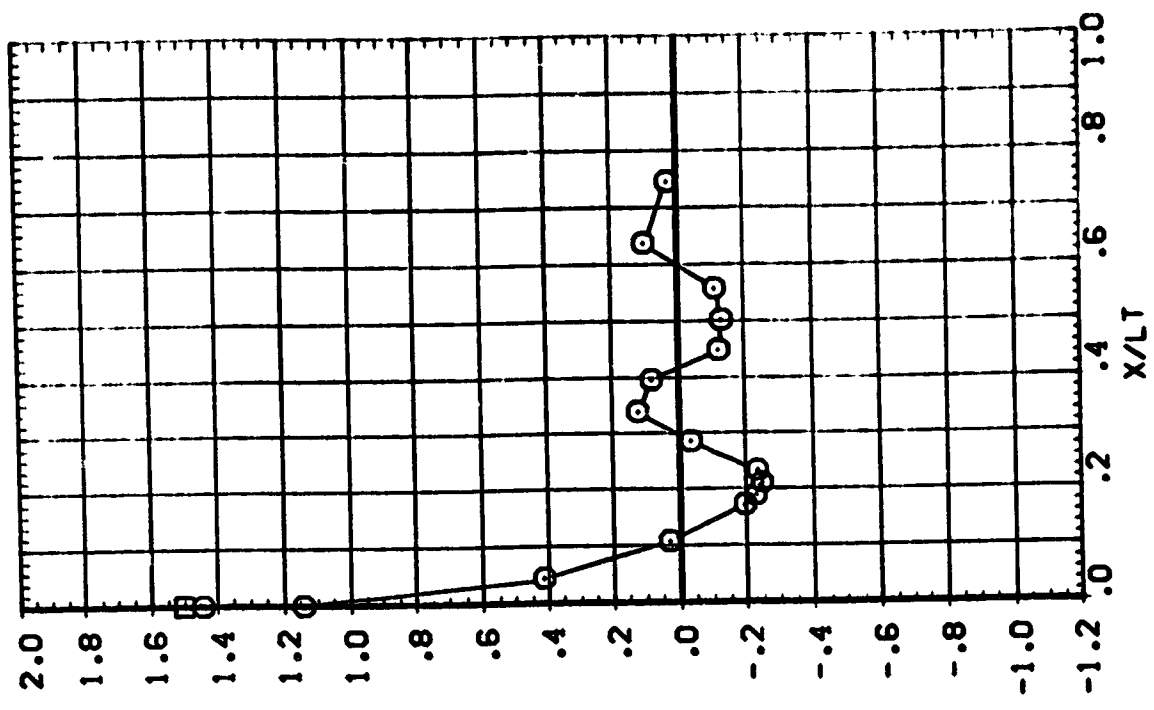
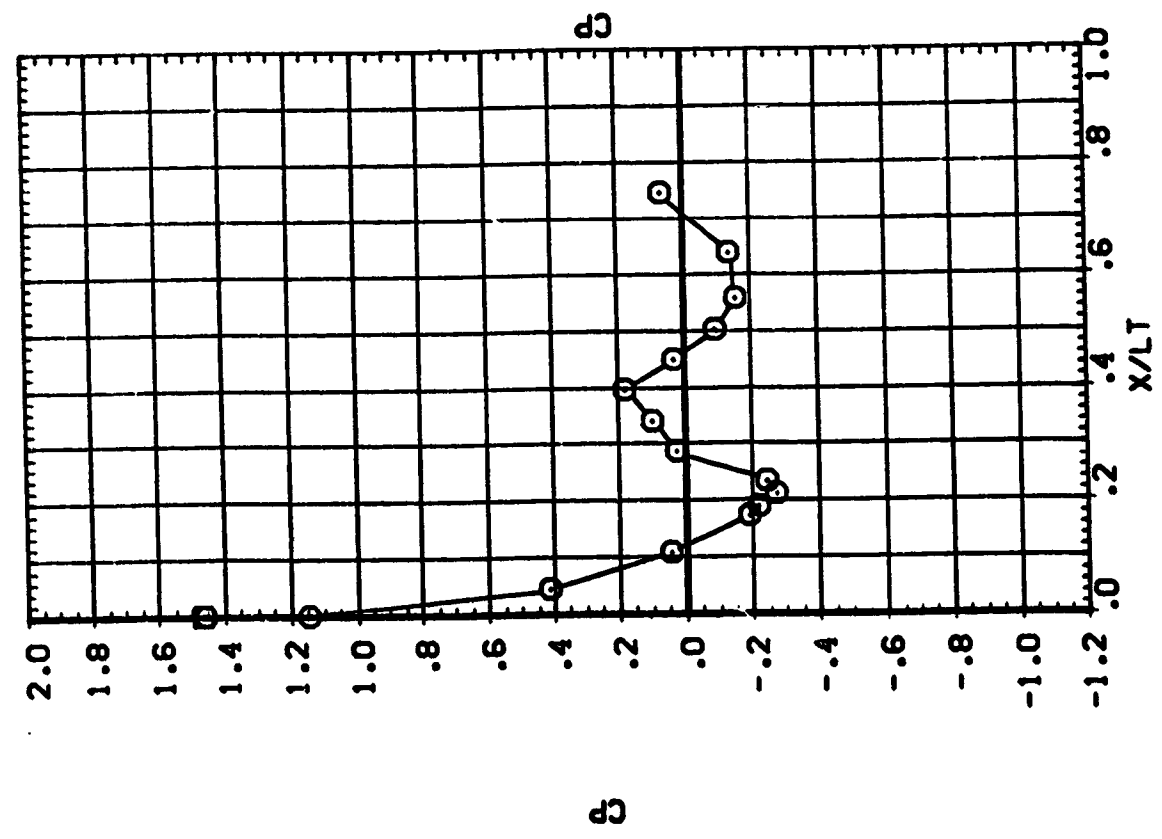
SYMBOL
O
□

PHI 180.000
270.000

BETAT 7.140
9.190

MACH 1.555

PARAMETRIC VALUES
ALPHAT 8.000 ORBINC .500
RUDDER .000 ELEVON .000
RUFLR .000

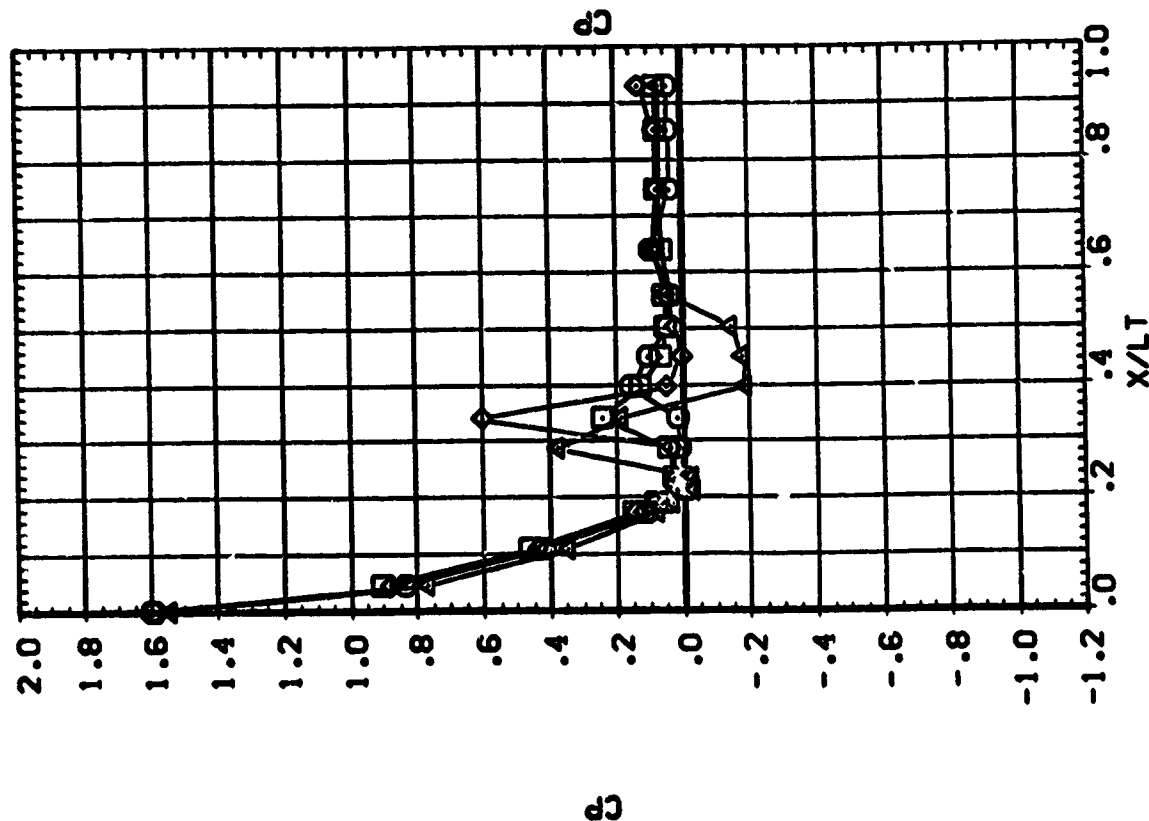
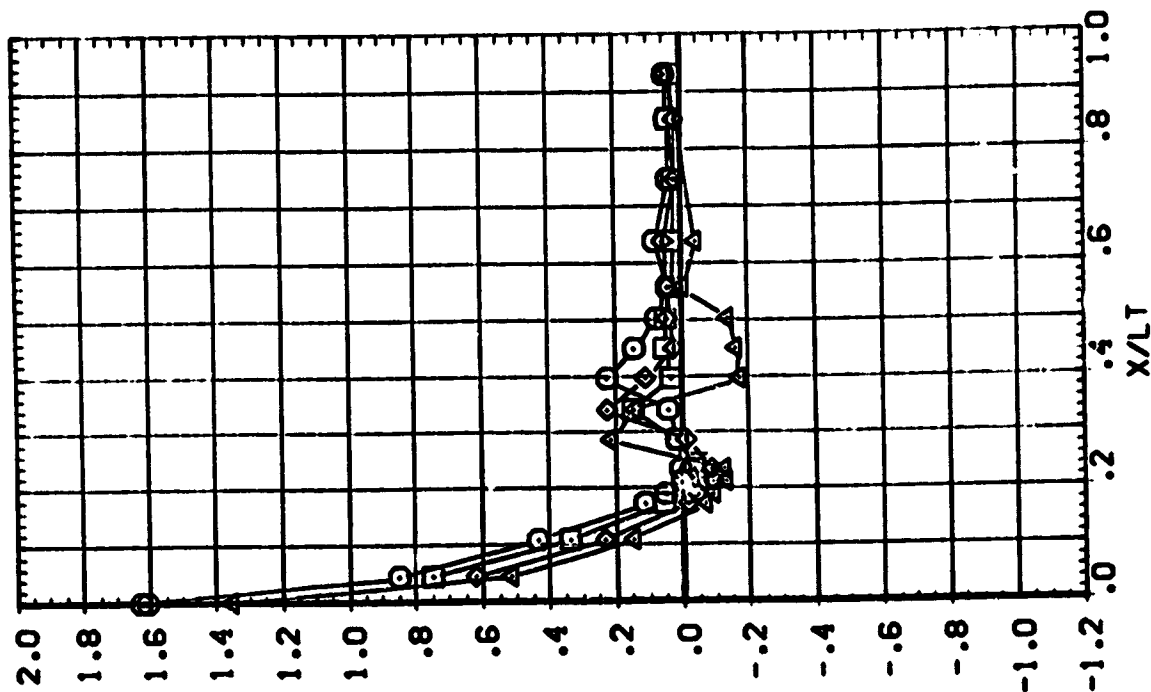


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK (R80T02)

PARAMETRIC VALUES
 ALPHAT 8.000 ORBINC .500
 RUDDER .000 ELEVON .000
 RUJFLR .000

SYMBOL PH1 BETAT MACH
 O .000 -6.270 2.000
 □ 30.000 3.990
 ◇ 60.000
 △ 90.000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

(RB0702)

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

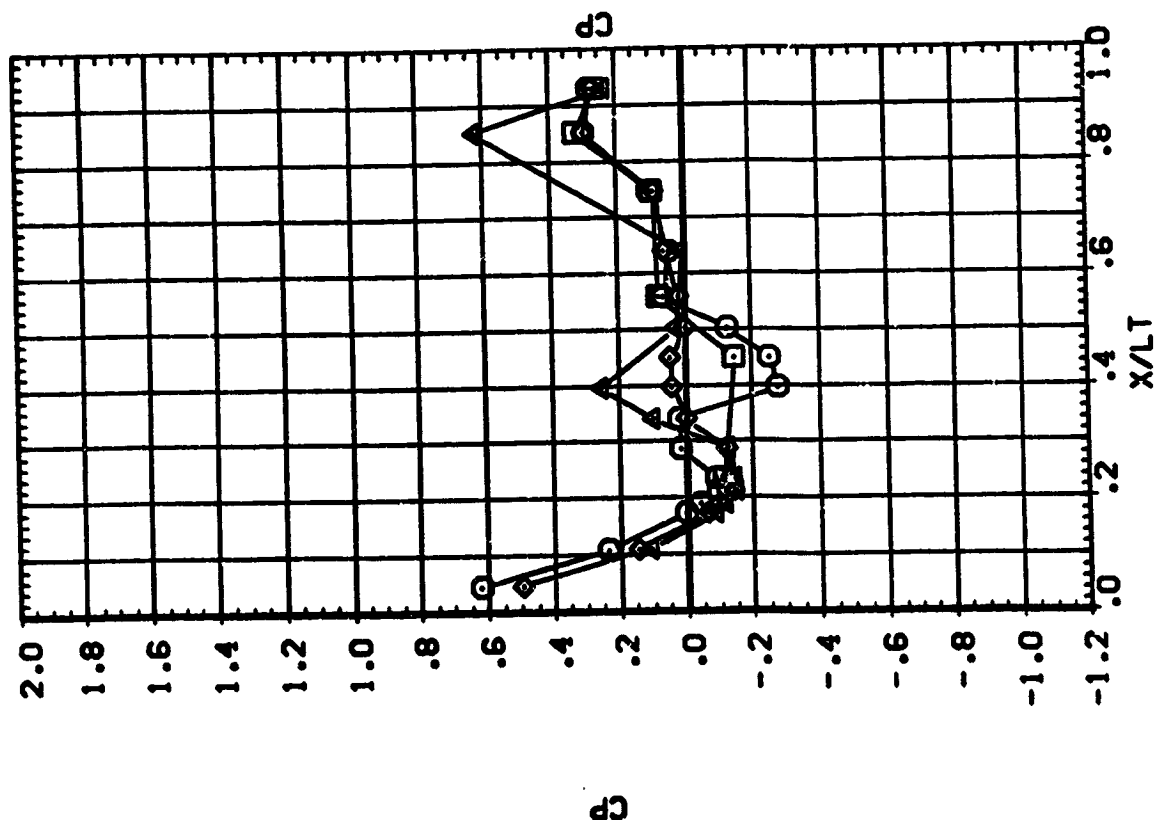
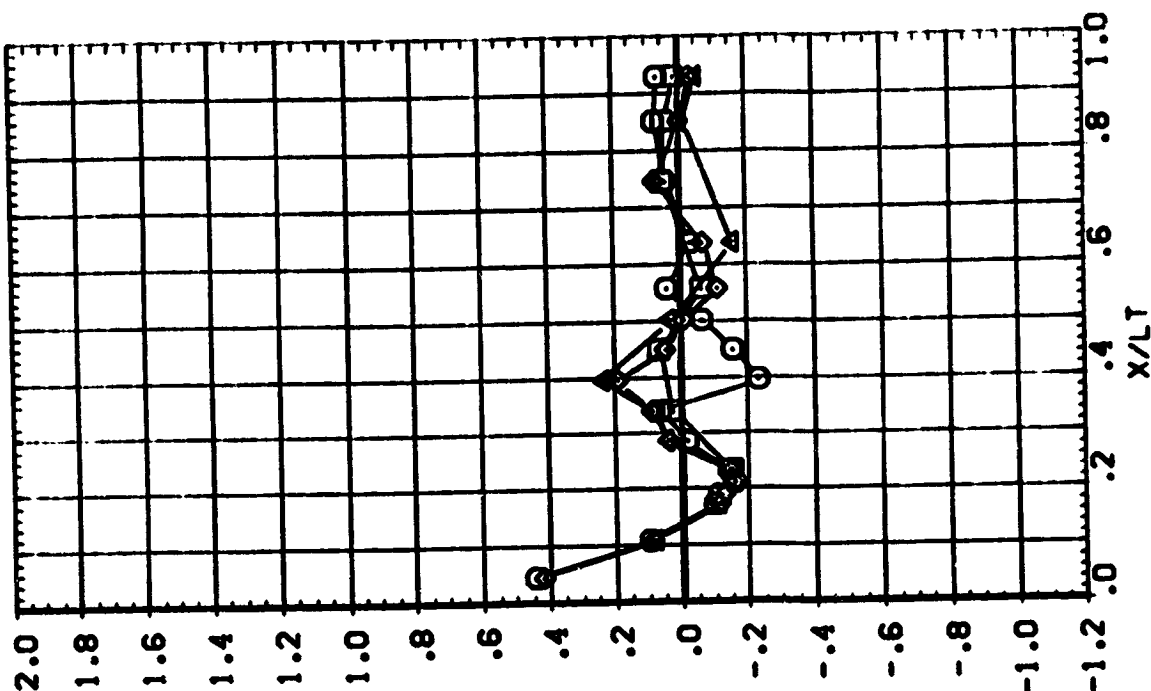
SYMBOL
○
□
◇
△

PHI
120.000
135.000
150.000
165.000

BETAT
-6.270
3.990

MACH
2.000

PARAMETRIC VALUES
ALPHAT 8.000
RUGGER .000
RUGLER .000
ORBITAL .500
ELEVON .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

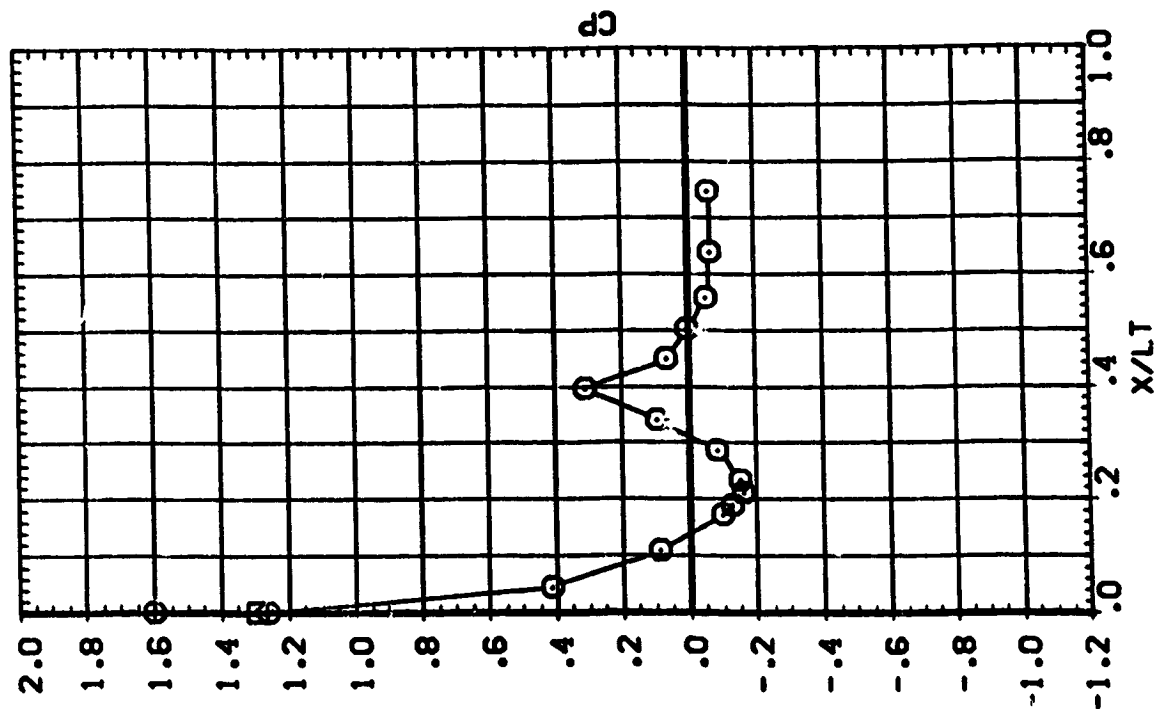
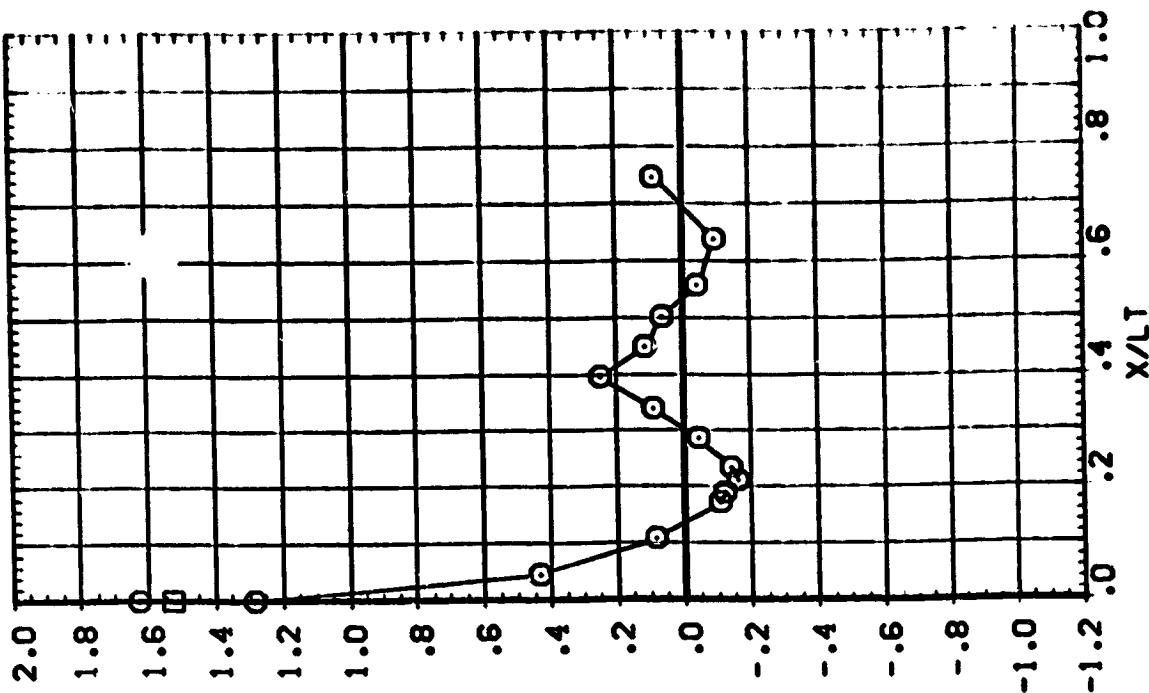
(R80T02)

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

SYMBOL
☐ ☐

PHI 180.000
 270.000
 BETAT -6.270
 3.992
 MACH 2.000

PARAMETRIC VALUES
 ALPHAT 8.000
 RUDGER .000
 RUDFLR .000
 CS9INC .500
 ELEVEN .000

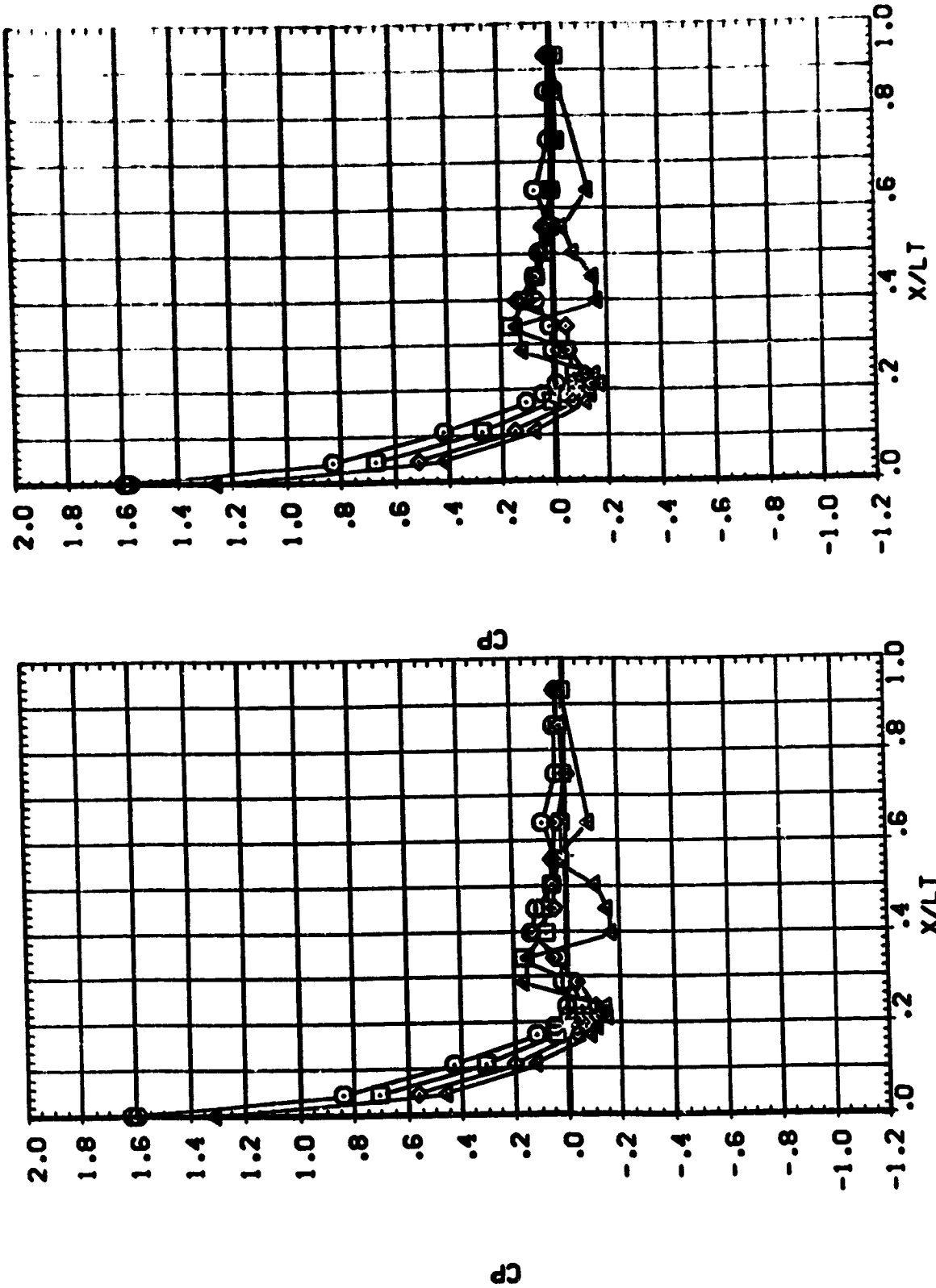


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

SYMBOL
 ○
 □
 ◇
 △

PHI .000 6.000 2.000
 30.000 8.120
 60.000
 90.000

PARAMETRIC VALUES
 ALPHAT 0.000 0.000 .500
 RZDER 0.000 .000
 RZCLR 0.000



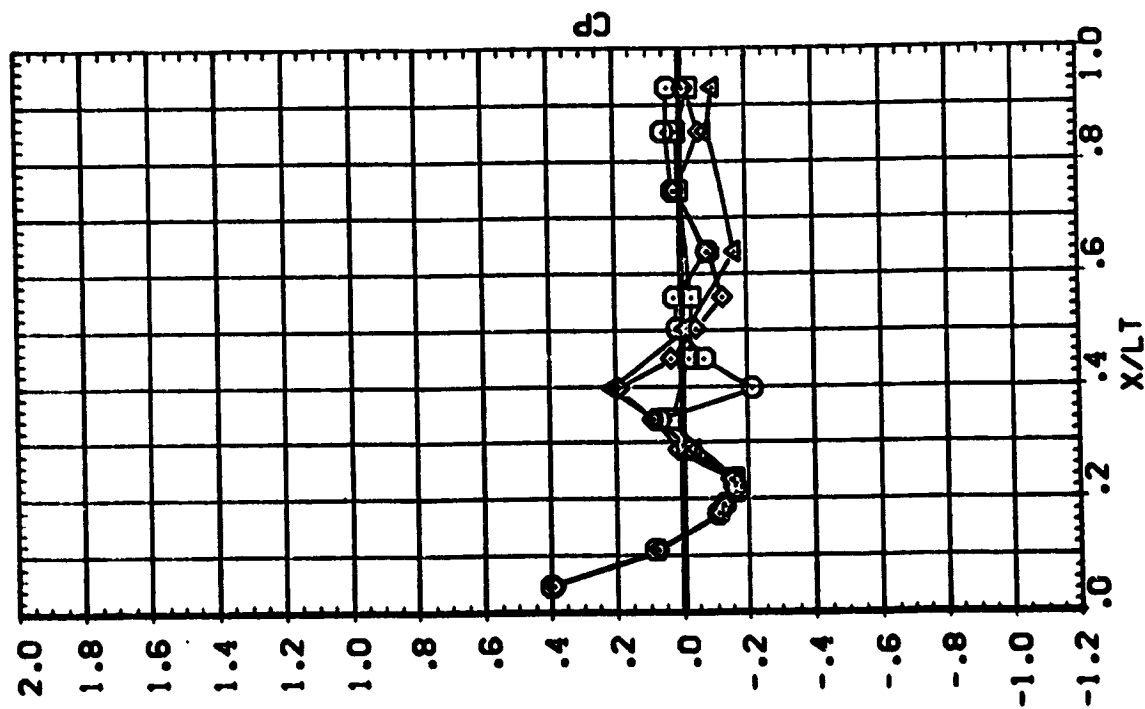
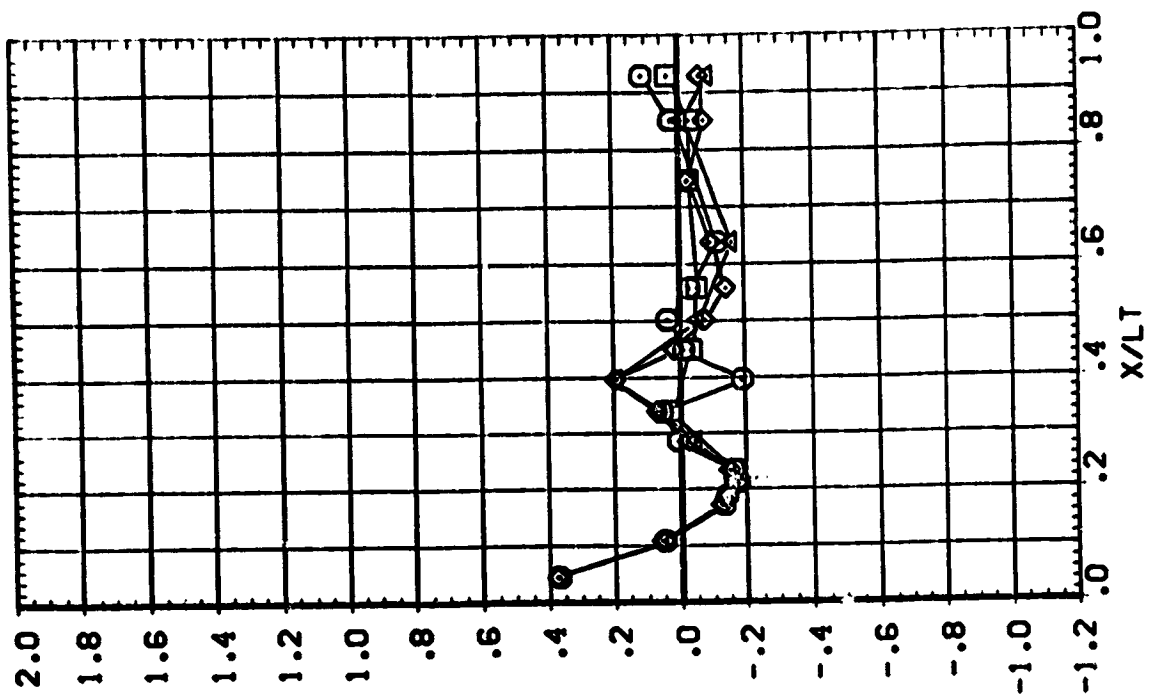
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

PARA-ETRIC VALUES	
0.000	CRB:NC
.000	ELEVEN
.000	

PARAMETRIC VALUES	
ALPHAT	8.000
RHOER	.000
RHOELR	.000

Symbol	PM	BETAT	MACH
○	120.000	6.060	2.000
□	135.000	8.120	
◇	150.000		
△	165.000		

Symbol    



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

(RB0702)

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

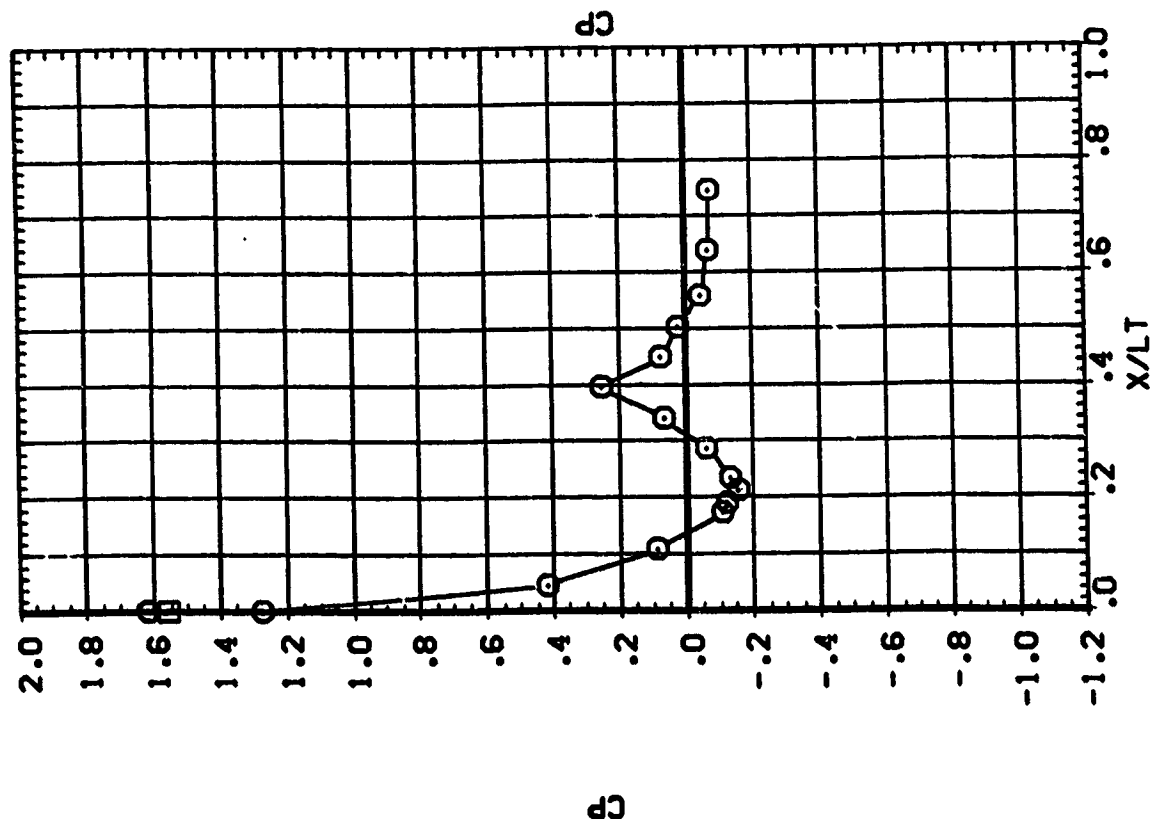
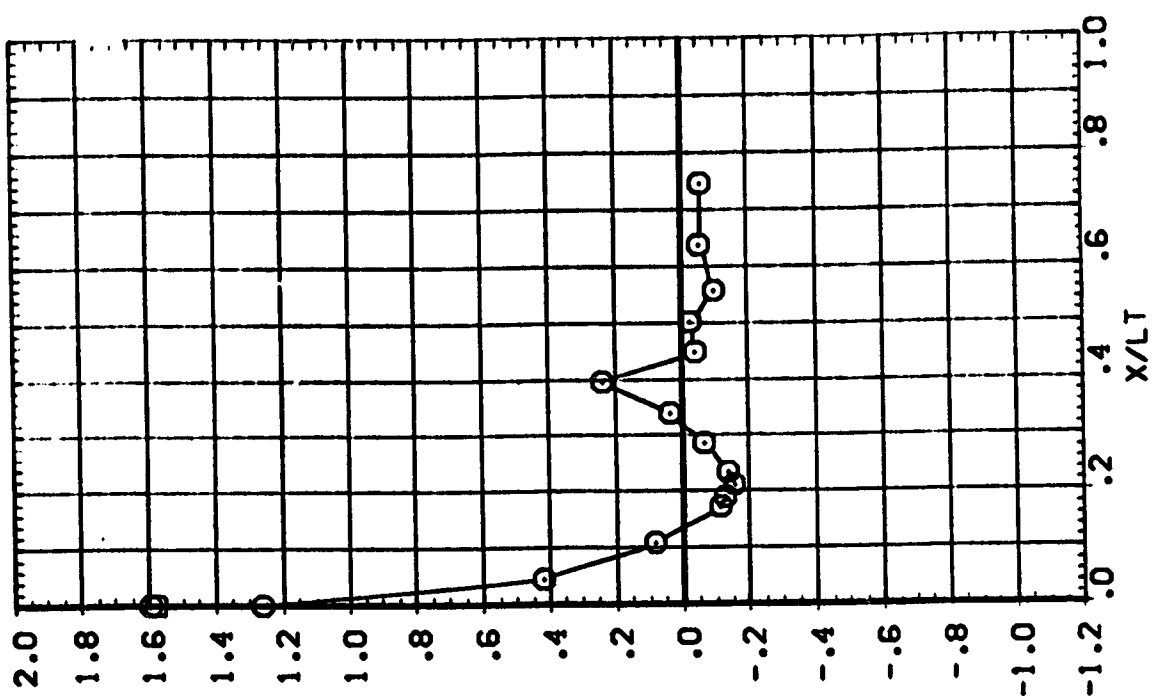
SYMBOL
○
□

PHI 180.000
270.000

BETAT 6.060
8.120

MACH 2.000

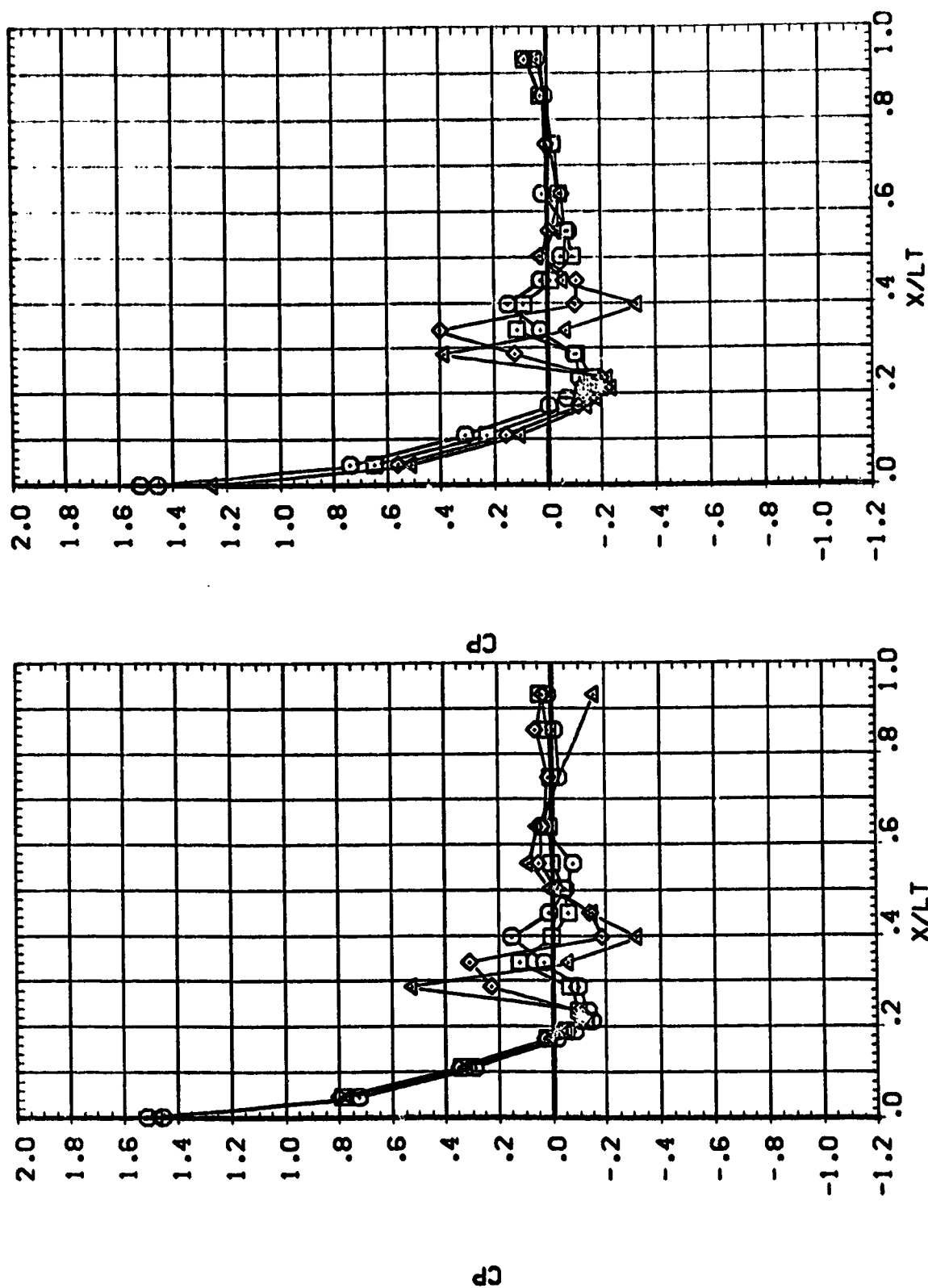
PARAMETRIC VALUES
ALPHA 8.000
RORR .000
RORR .000
ORBITAL ELEVON .500
ELEVON .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES
○	.000	-5.070	1.555	ALPHAT 4.000 99.9%
□	30.000	5.060		R0DER .000 5.50%
<	60.000			R0C.R .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

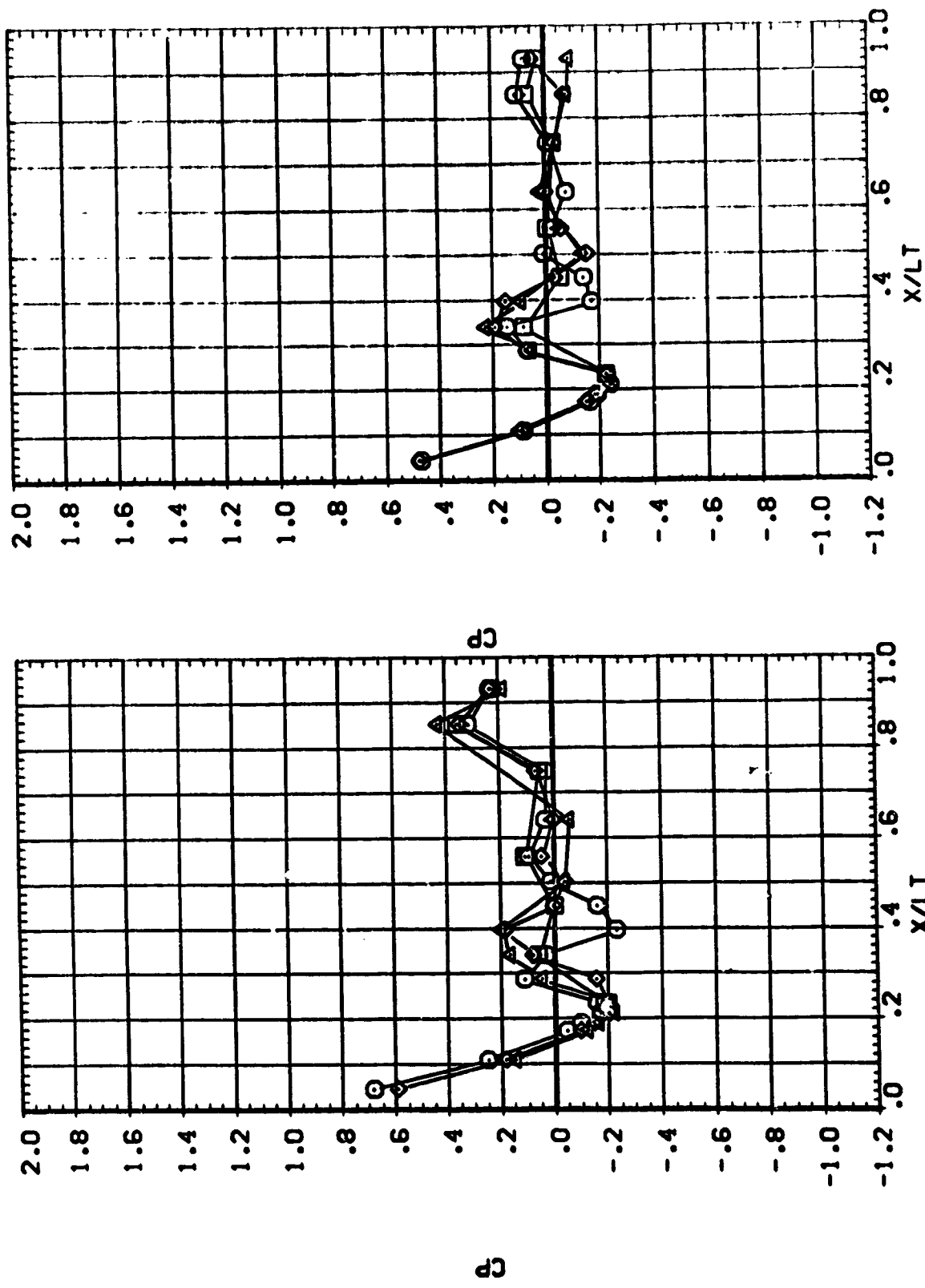
SYMBOL
 ○
 □
 ◇
 △

PHI
 120.000
 135.000
 150.000
 165.000

BETAT
 -5.070
 5.060

MACH
 1.555

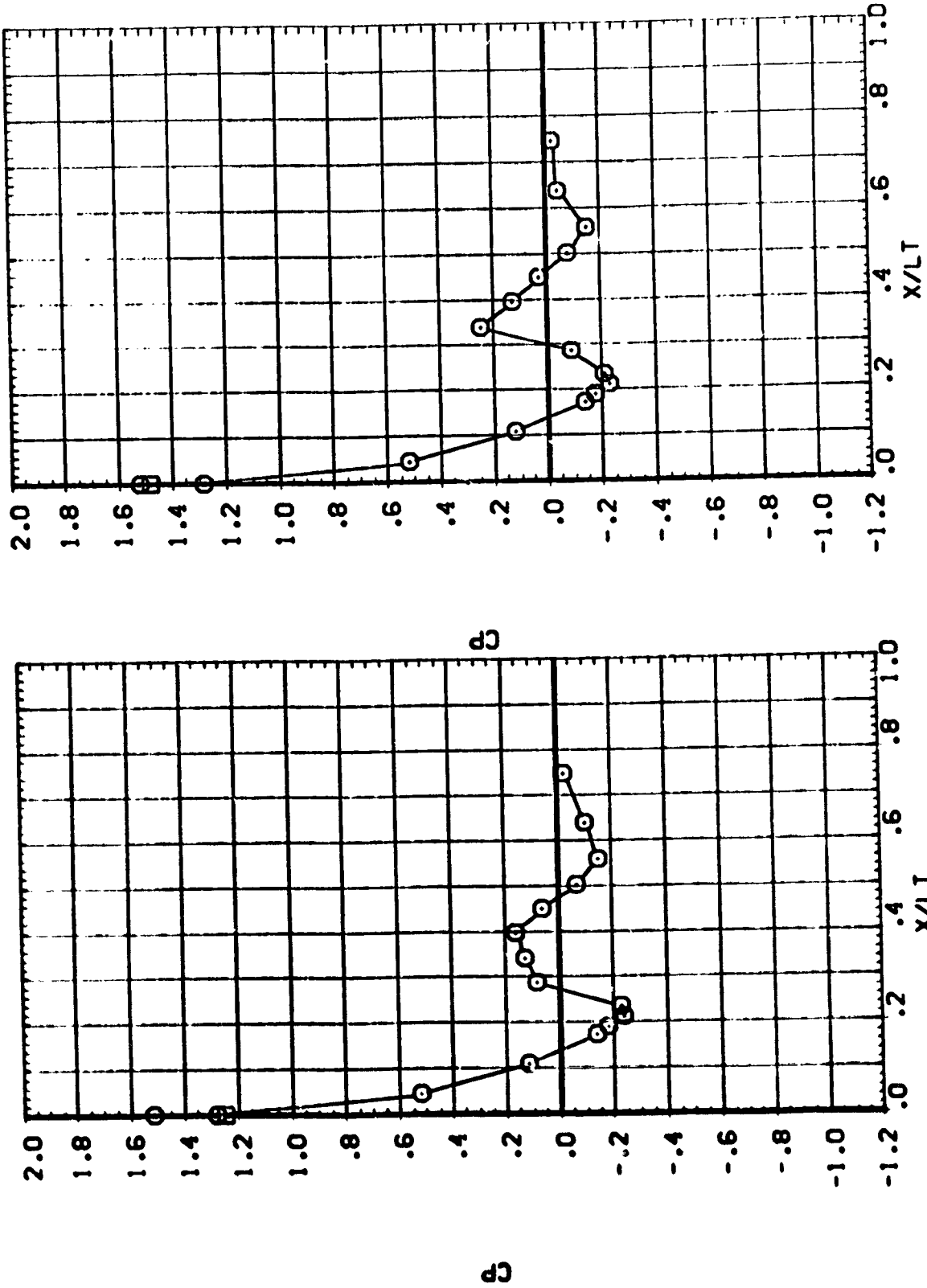
PARAMETRIC VALUES
 ALPHA 4.000
 RUGGER .000
 RUGFLR .000
 CORRINC .500
 ELEVON .000



LONGTUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 1A9 C2A + S3 + T9 EXTERNAL TANK (R3C04)

S-VEG: 180.000 270.000
 ()
 BETAT: -5.070 5.060
 MACH: 1.555
 PARAMETRIC VALUES
 ALPHA: 4.000 5.000
 RUDDER: .000 ELEVEN: .000
 RUDDER: .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 :A9 C2A - S3 - 79 EXTERNAL TANK (R80104)

SYMBOL

1.000
30.000
60.000
90.000

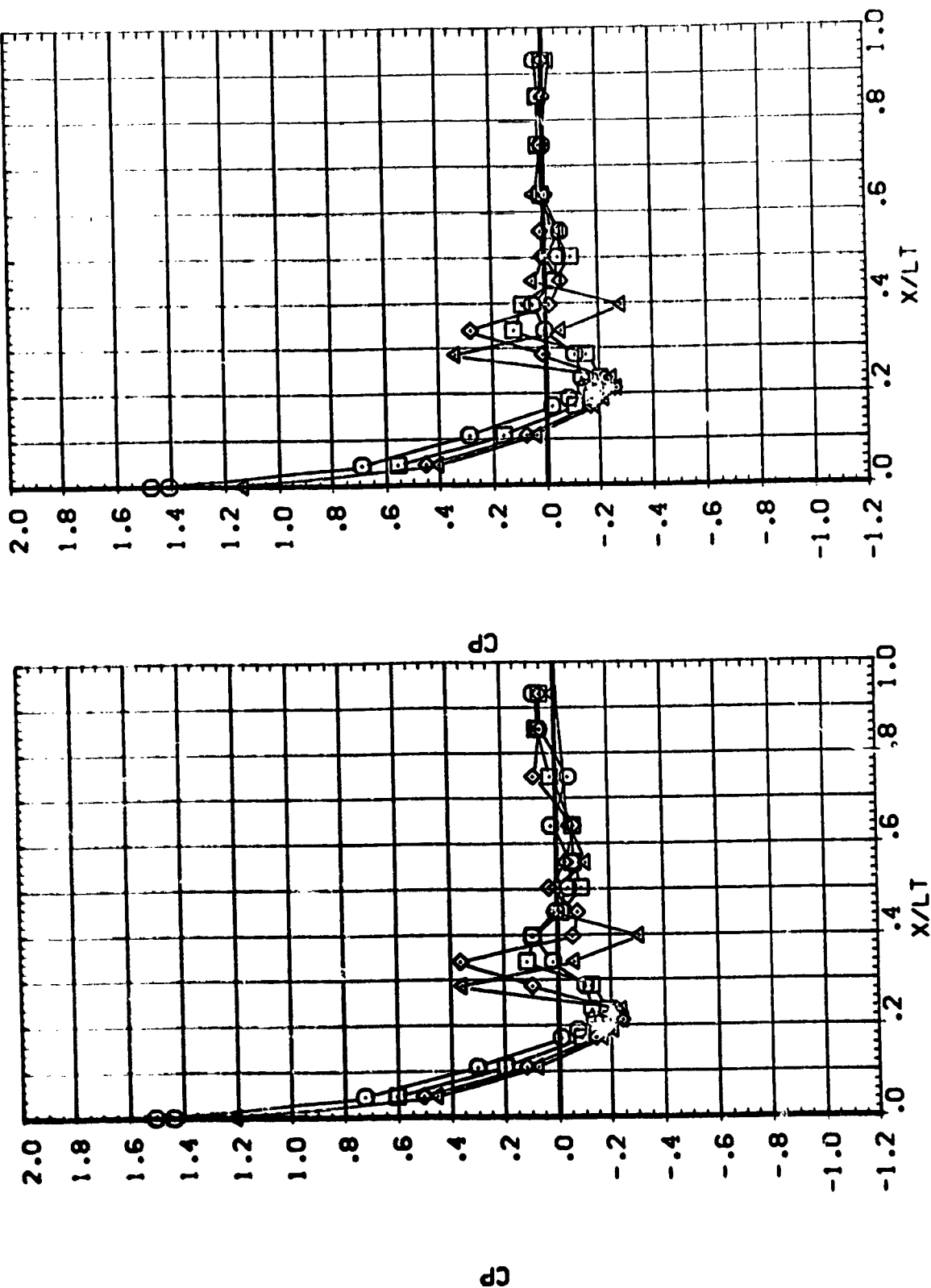
BETA² 7.080
9.100

MACH

1.555

PARAMETRIC VALUES

ALPHA² 4.000 0.910
RUGGER 1.000 0.000
RUGGER 1.000 0.000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

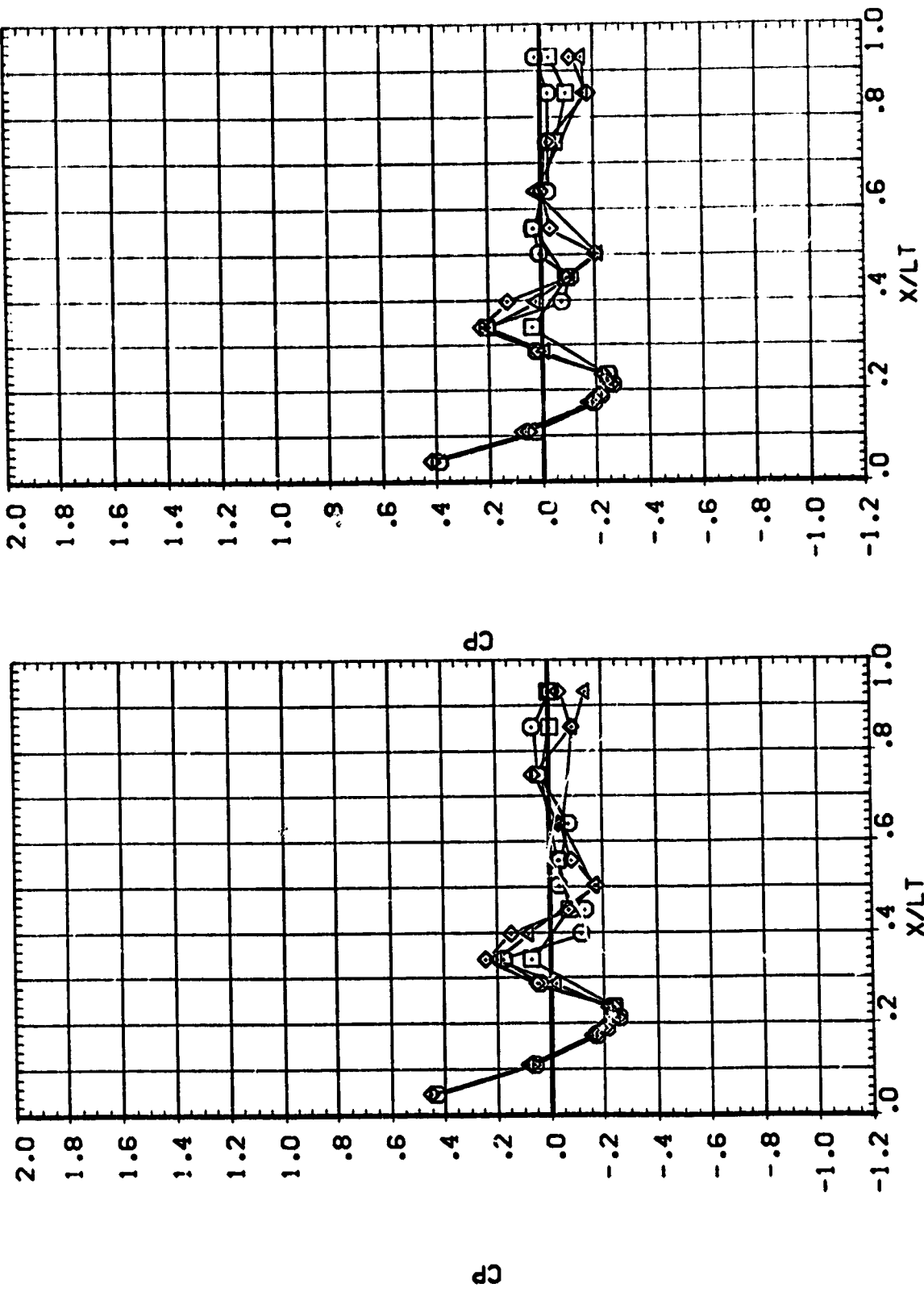
SYMBOL
 ○
 □
 ◇
 △

PHI
 120.000
 135.000
 150.000
 165.000

RETAI
 7.080
 9.100

MACH
 1.555

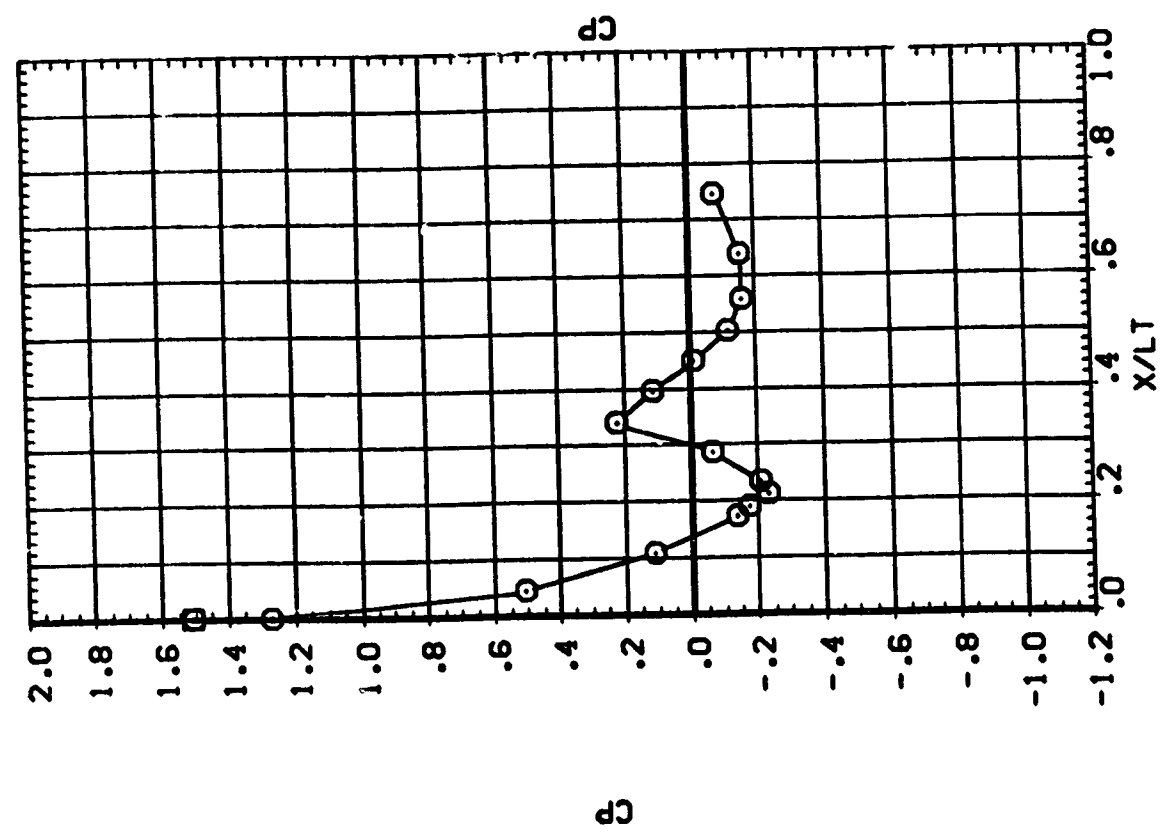
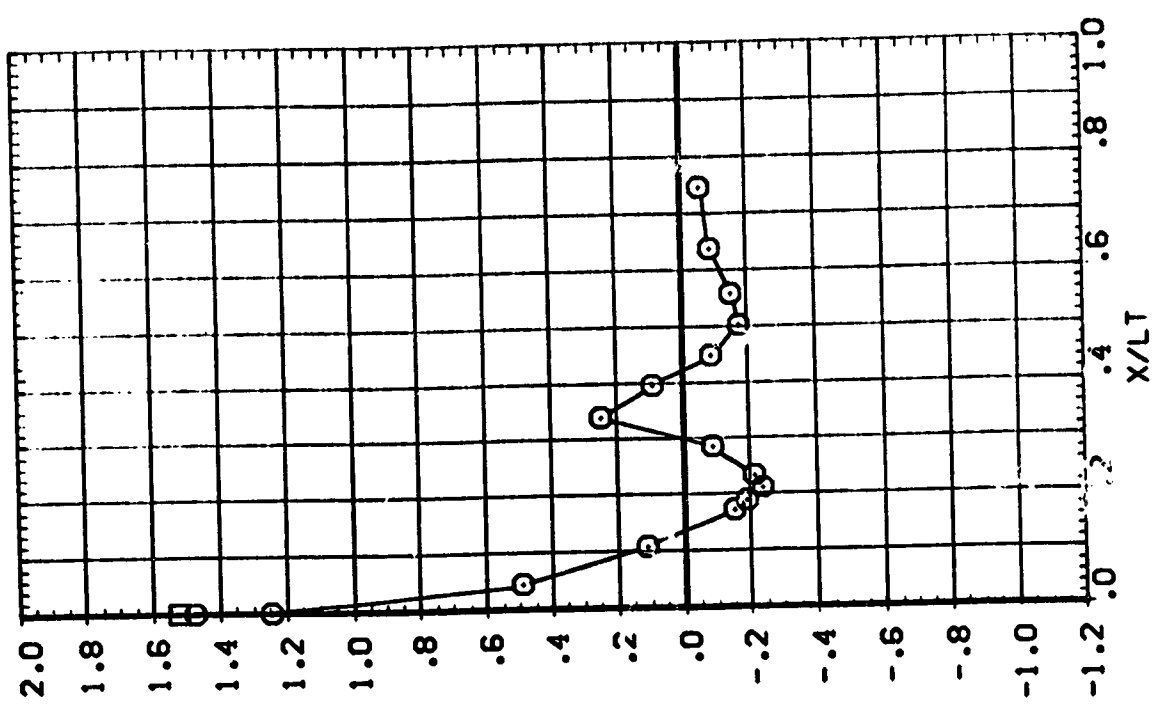
PARAMETRIC VALUES
 ALPHA 4.000
 RUDER .000
 RUDER ELEVON .000
 ORBINC .500
 ELEVON .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

ALPHAT
 RUDER
 RUDER
 4.000
 1.000
 1.000
 1.000
 1.000
 1.000

SYMBOL
 180.000
 270.000
 7.080
 9.100
 1.555



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK (RB0T04)

SYMBOL
 ○ □ ◇ △

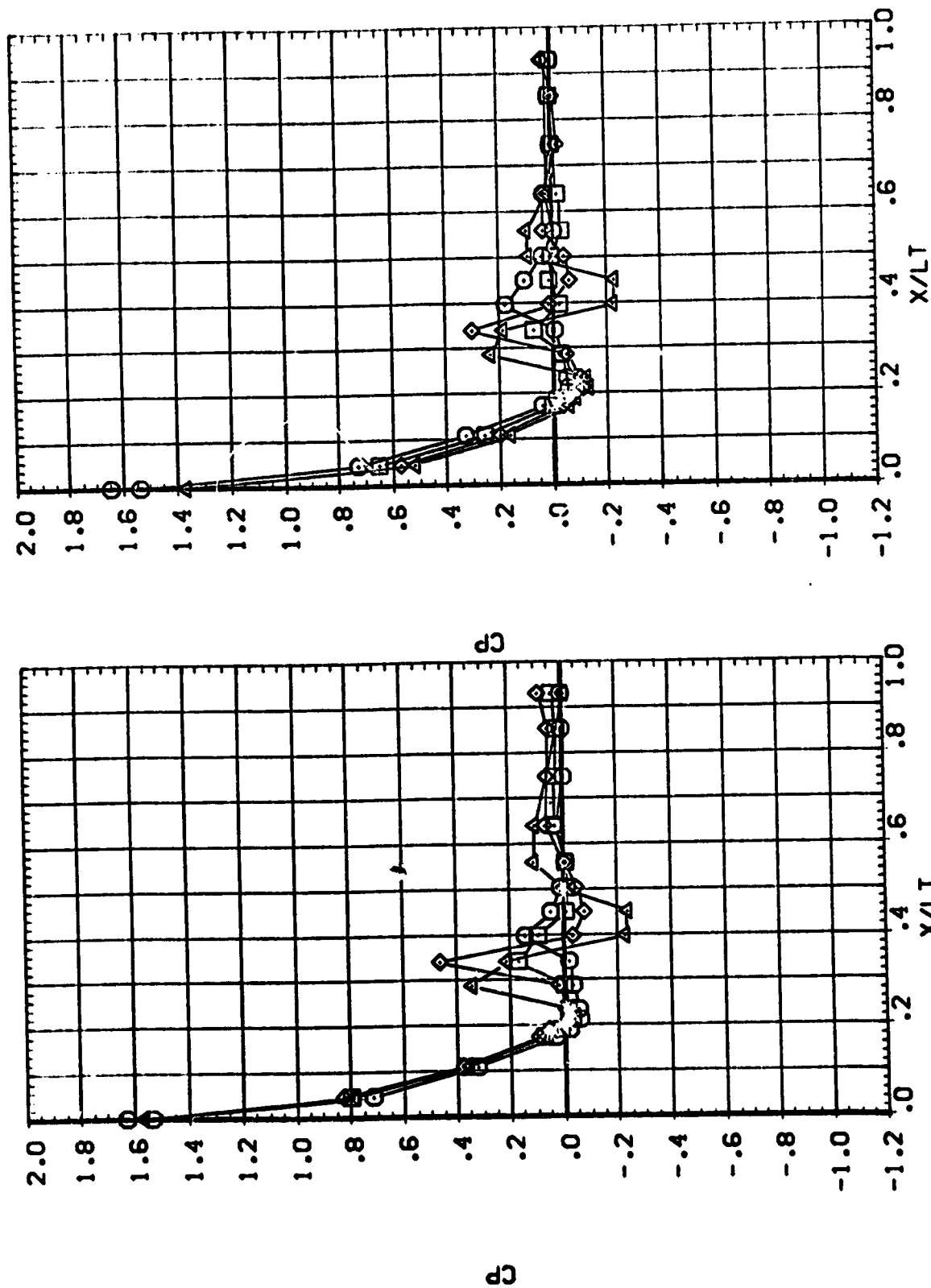
PHI .000
 30.000
 60.000
 90.000

BETAT -6.240
 3.950

MACH 2.000

PARAMETRIC VALUES
 ALPHAT 4.000
 RUDDER .000
 RUDEL 0.000

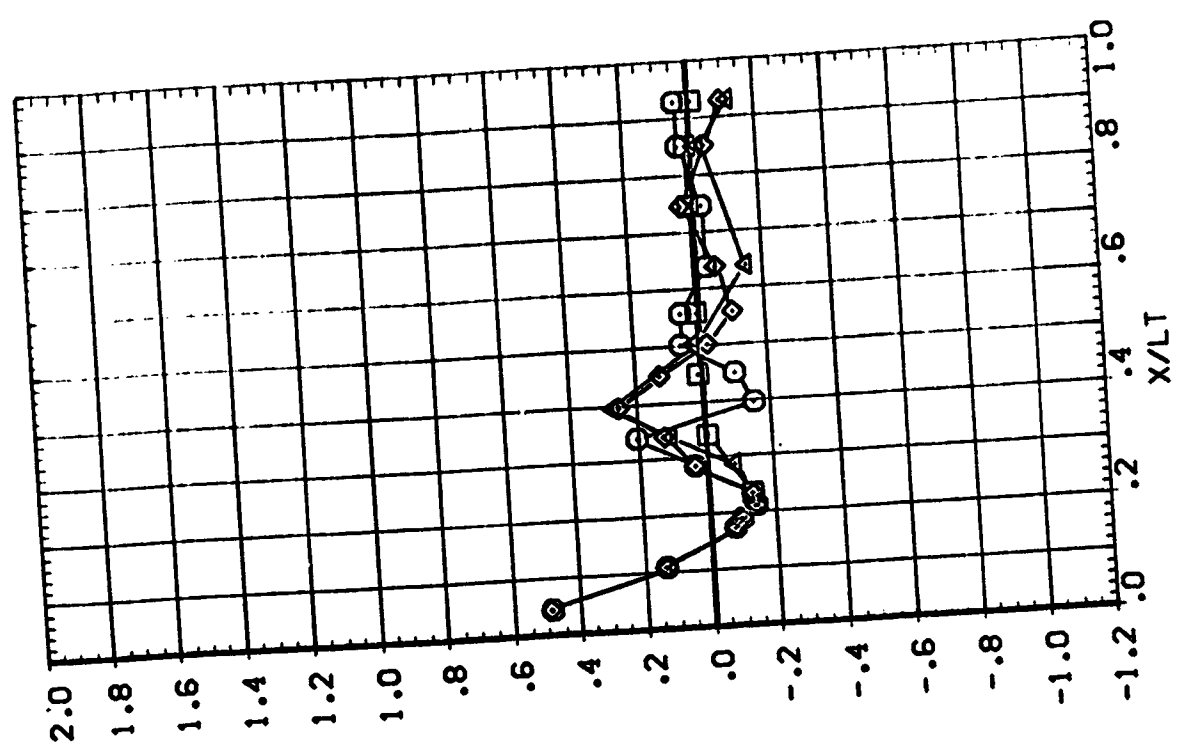
ORBITAL .500
 ELEVON .000



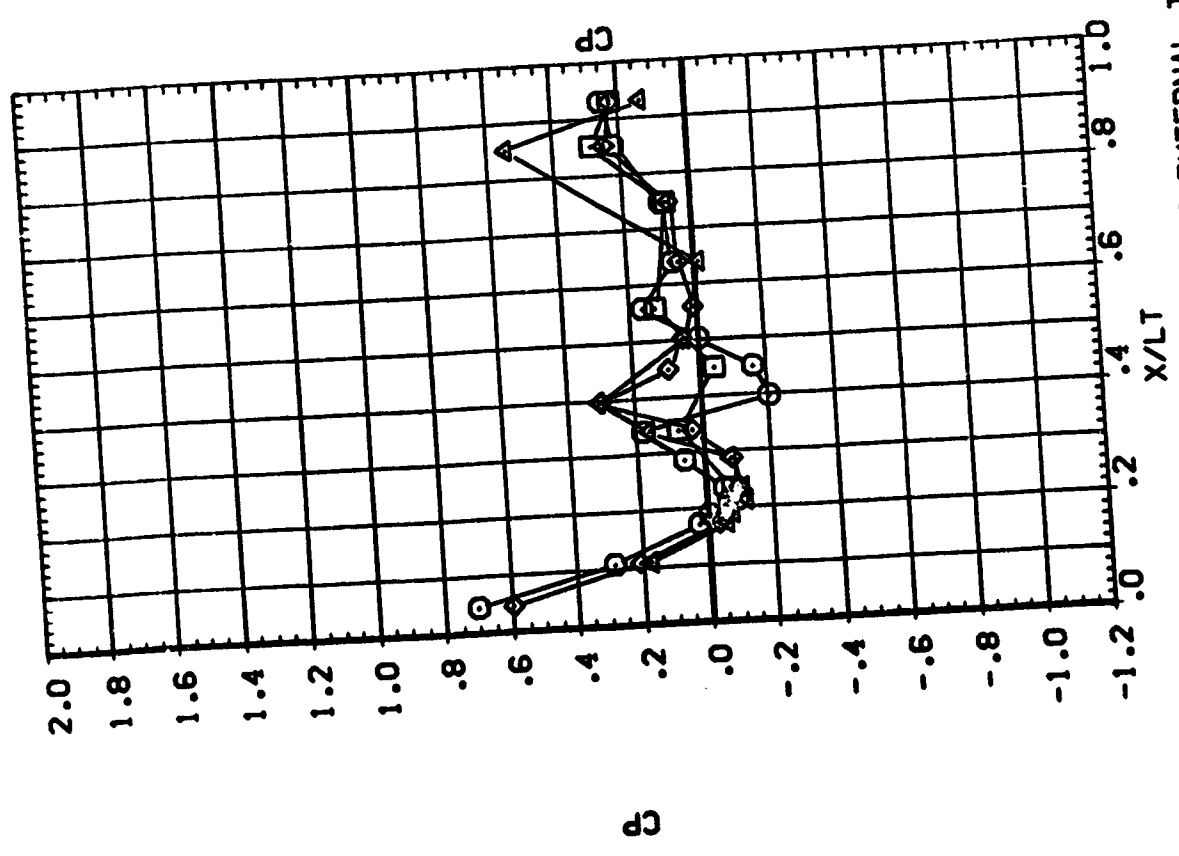
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

120.000
 135.000
 150.000
 165.000
 -6.240
 3.950
 9.100

ROFLA



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES





AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK (R80T04)

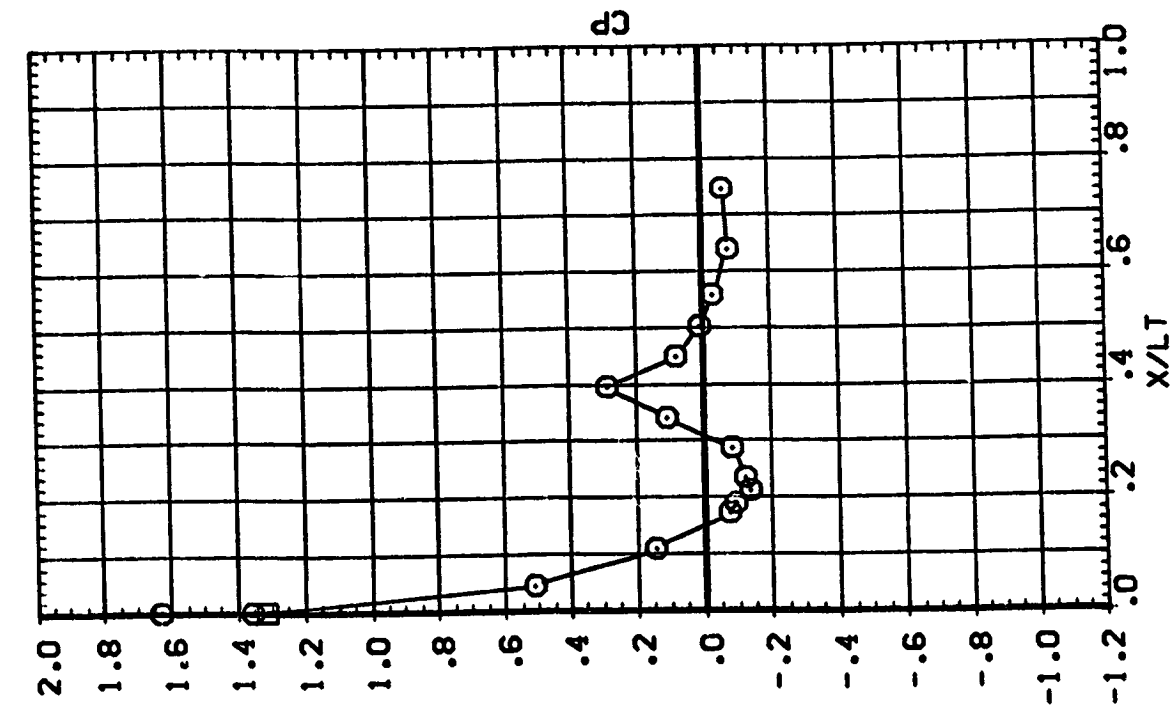
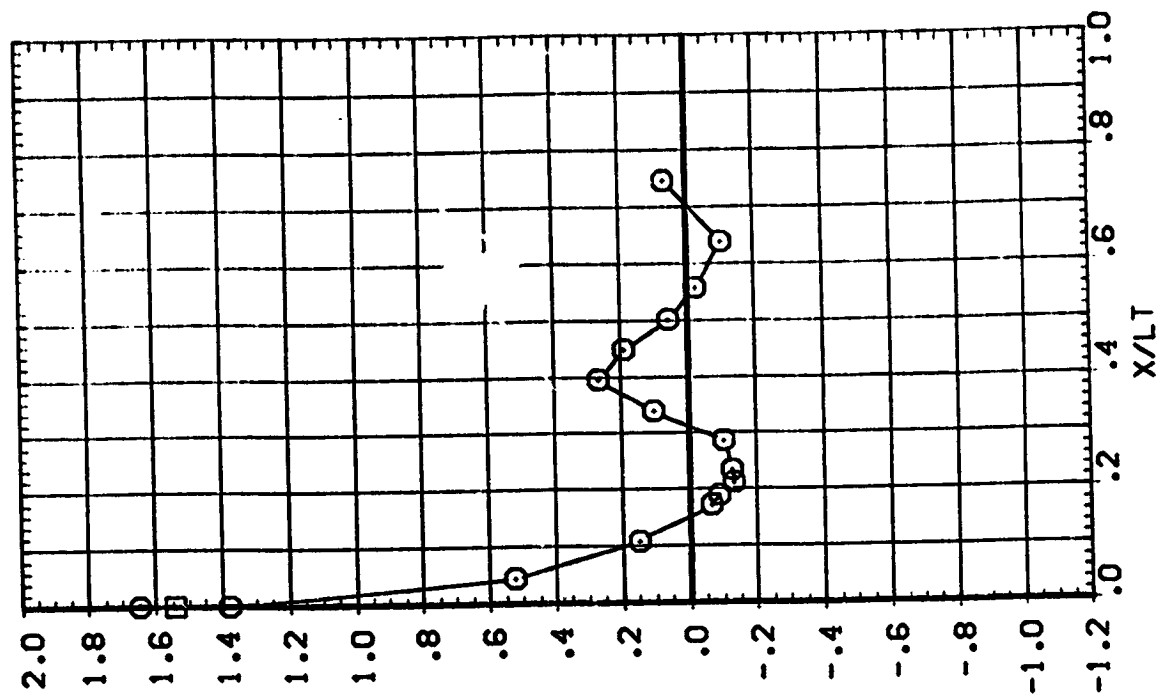
SYMBOL
□

PHI 180.000
270.000

BETAT -6.240
3.350

MACH 2.000

PARAMETRIC VALUES
ALPHAT 4.000
RCDER .000
RCDFLR .000
SRBINC .500
ELEVON .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK (RB0T04)

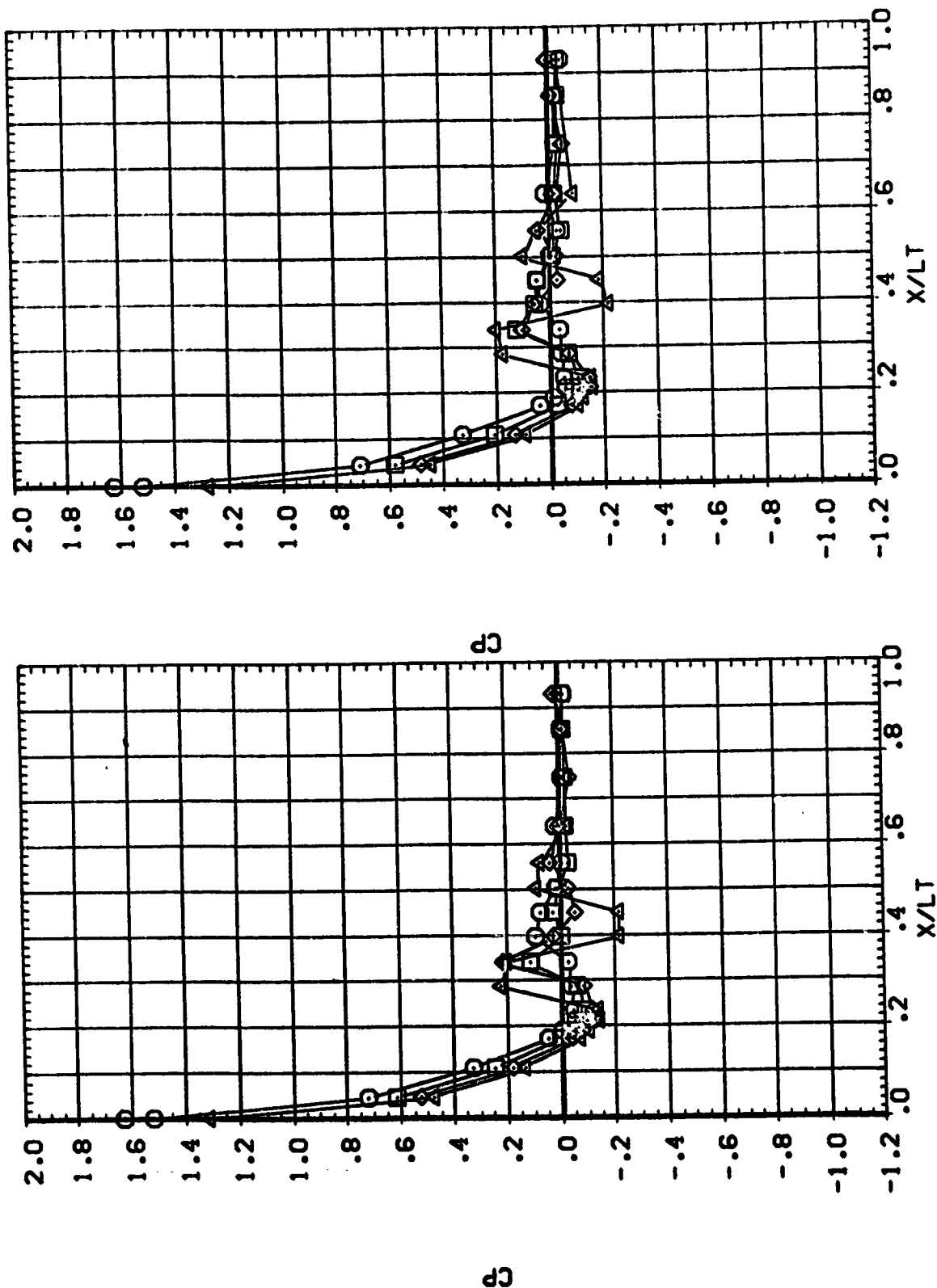
SYMBOL
 ○
 □
 ◇
 △

PHI
 .000
 30.000
 60.000
 90.000

BETAT
 5.990
 8.030

MACH
 2.000

PARAMETRIC VALUES
 ALPHAAT 4.000 ORBINC .500
 RUDEER .000 ELEVON .000
 RUDELR .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK (RB0T04)

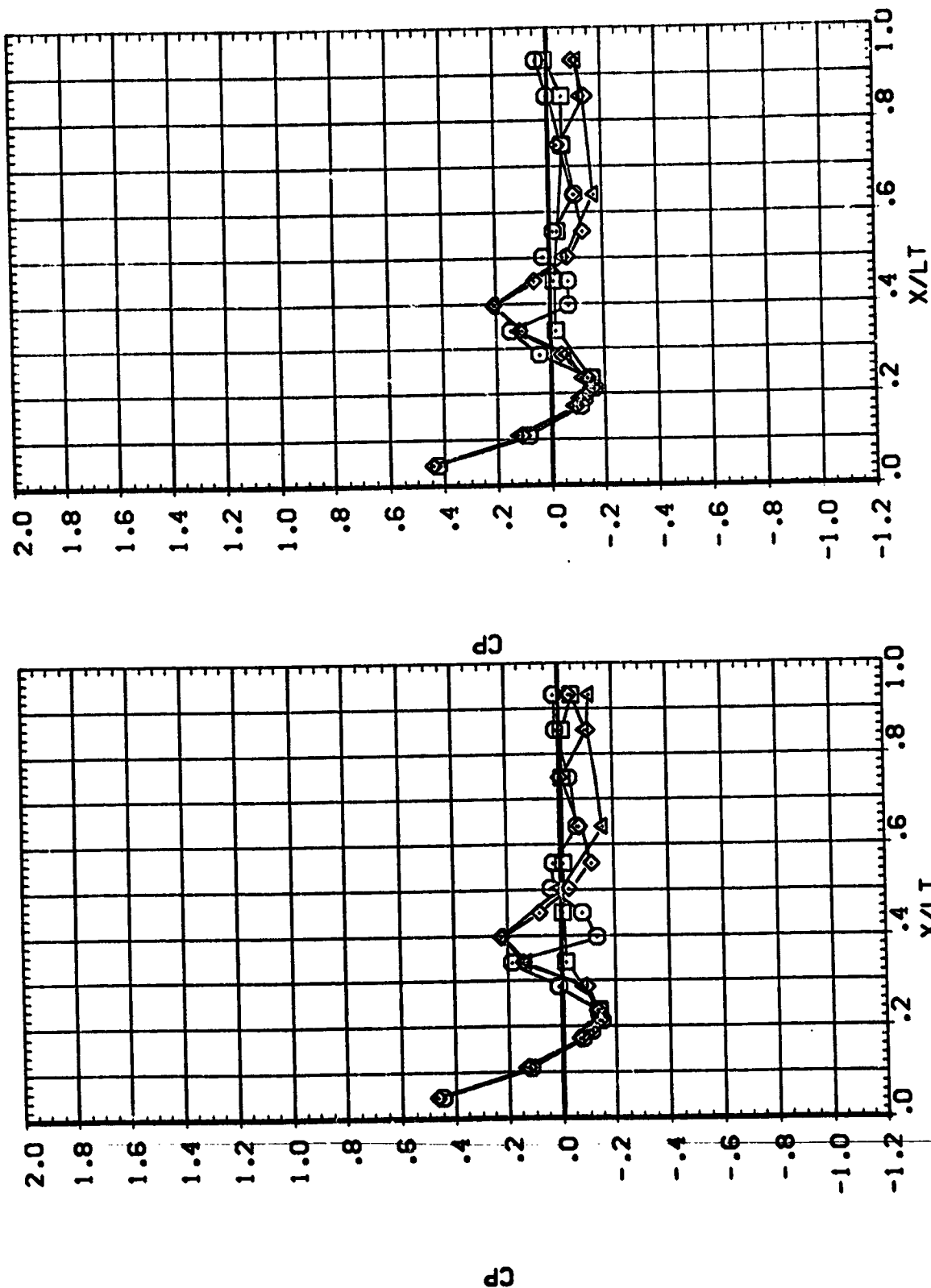
SYMBOL
 ○
 □
 ◇
 △

PHI
 120.000
 135.000
 150.000
 165.000

BETAT
 5.990
 8.030

MACH
 2.000

PARAMETRIC VALUES
 ALPHA: 4.000
 RUDER .000
 RUDLR .000
 ORBINC .500
 ELEVON .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 84-1007 1X9 02A + 53 4 19 EXTERNAL TANK

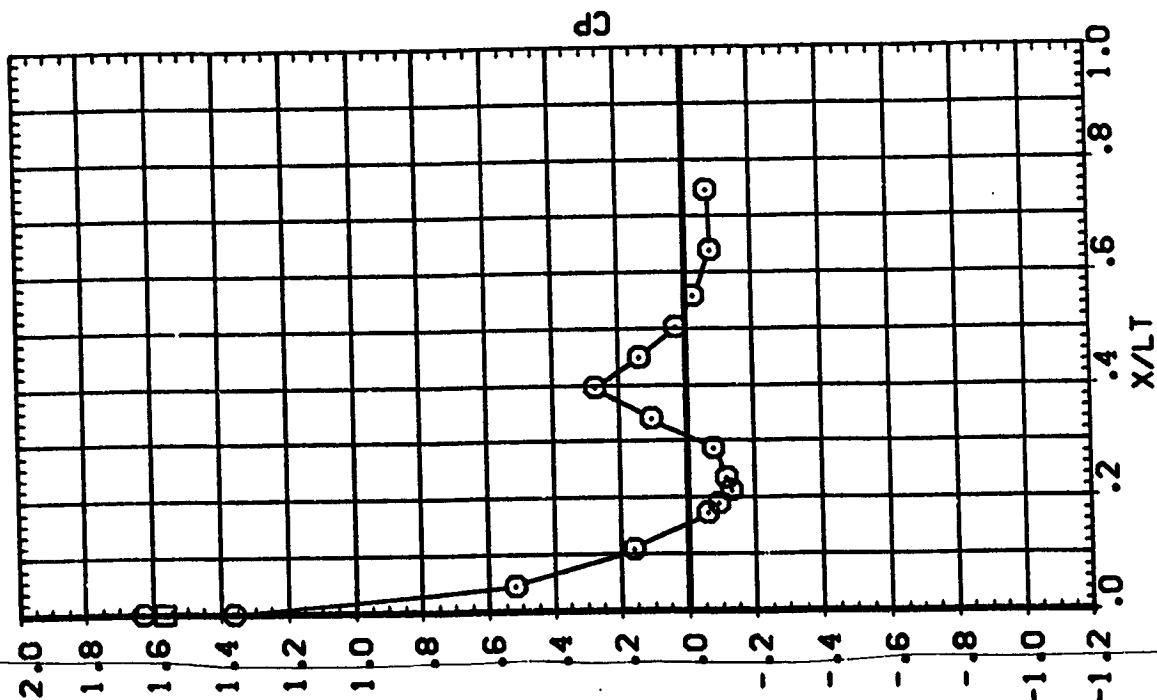
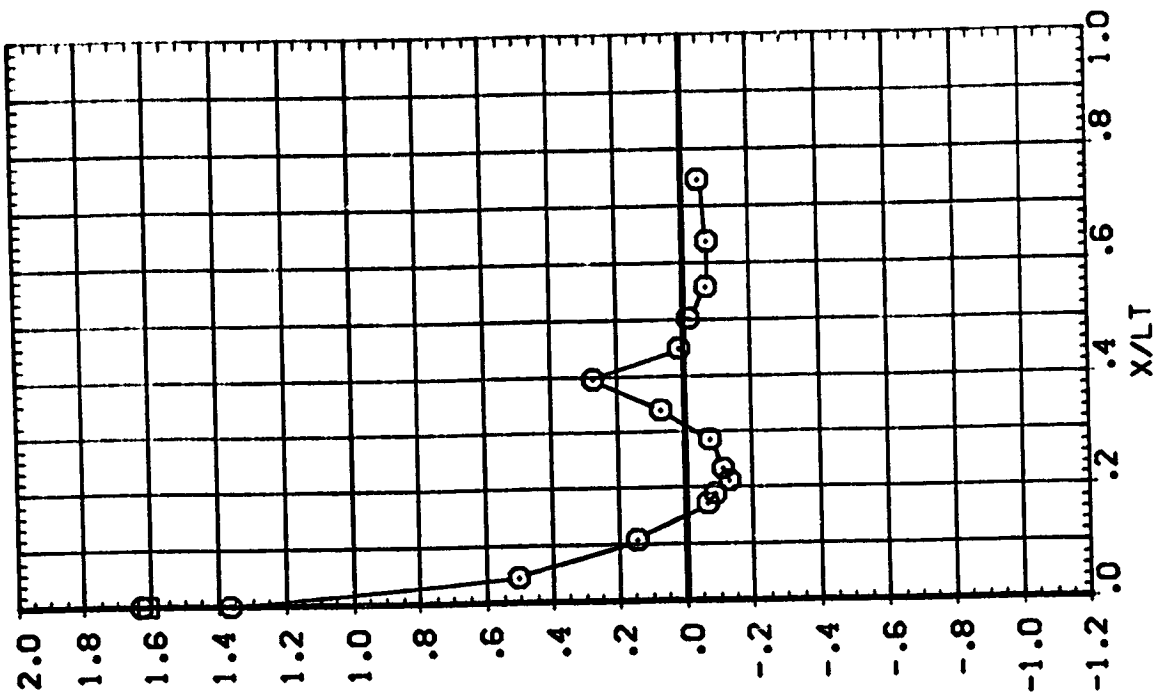
SYMBOL
O
□

PHI
180.000
270.000

BETAT
5.990
8.030

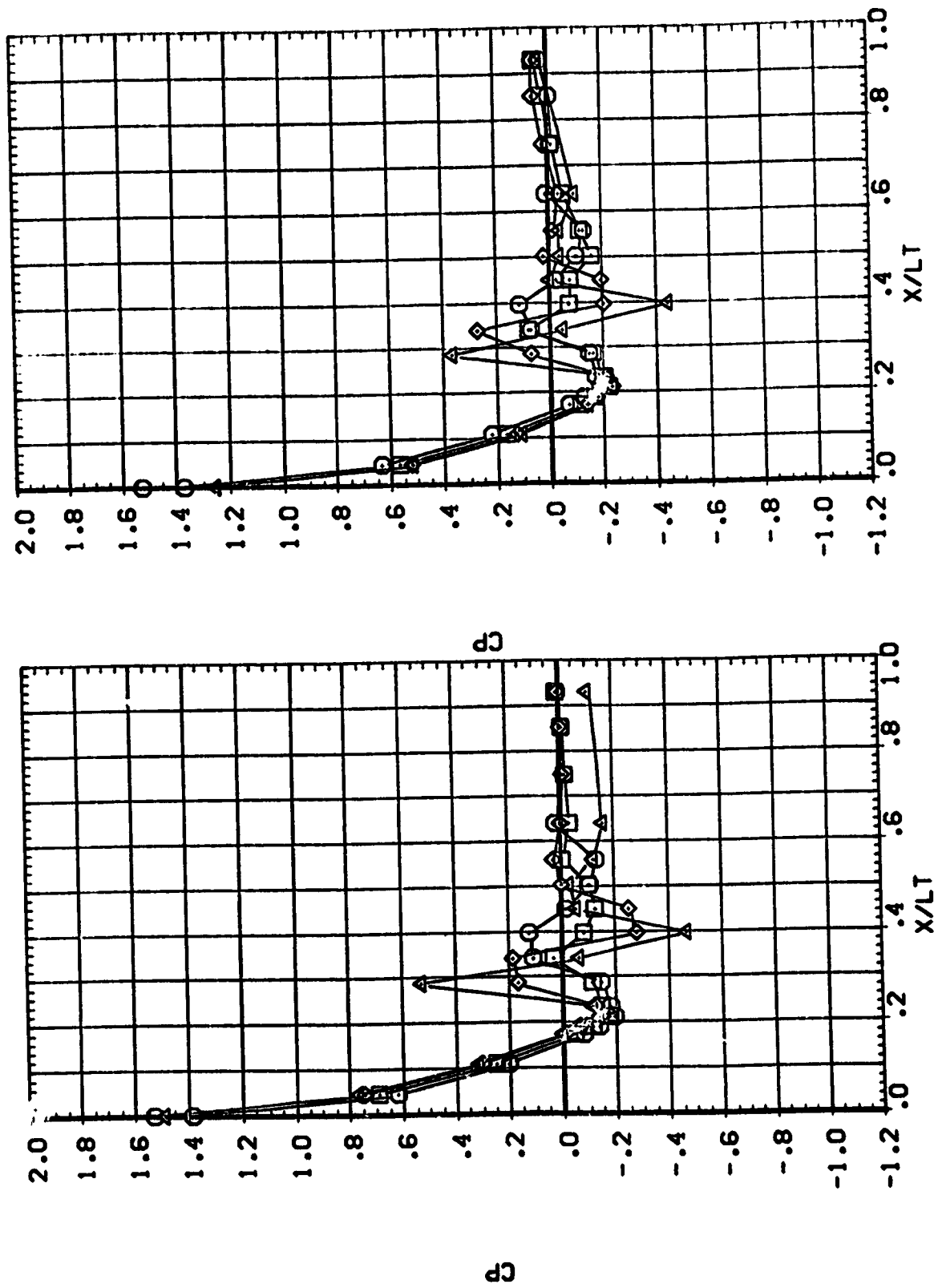
MACH
2.000

PARAMETRIC VALUES
ALPHAT
R2C0R
R2D0LR
4.000
.000
.000
ORBIN
ELEV
.000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

SYMBOL	PHI	BETAT	MACH	ALPHAT	PARAMETRIC VALUES
○	.000	-5.080	1.555	.000	ORBITC .500
□	30.000	5.050		.000	ELEVON .000
◇	60.000				
△	90.000				



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

(RB0T06)

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

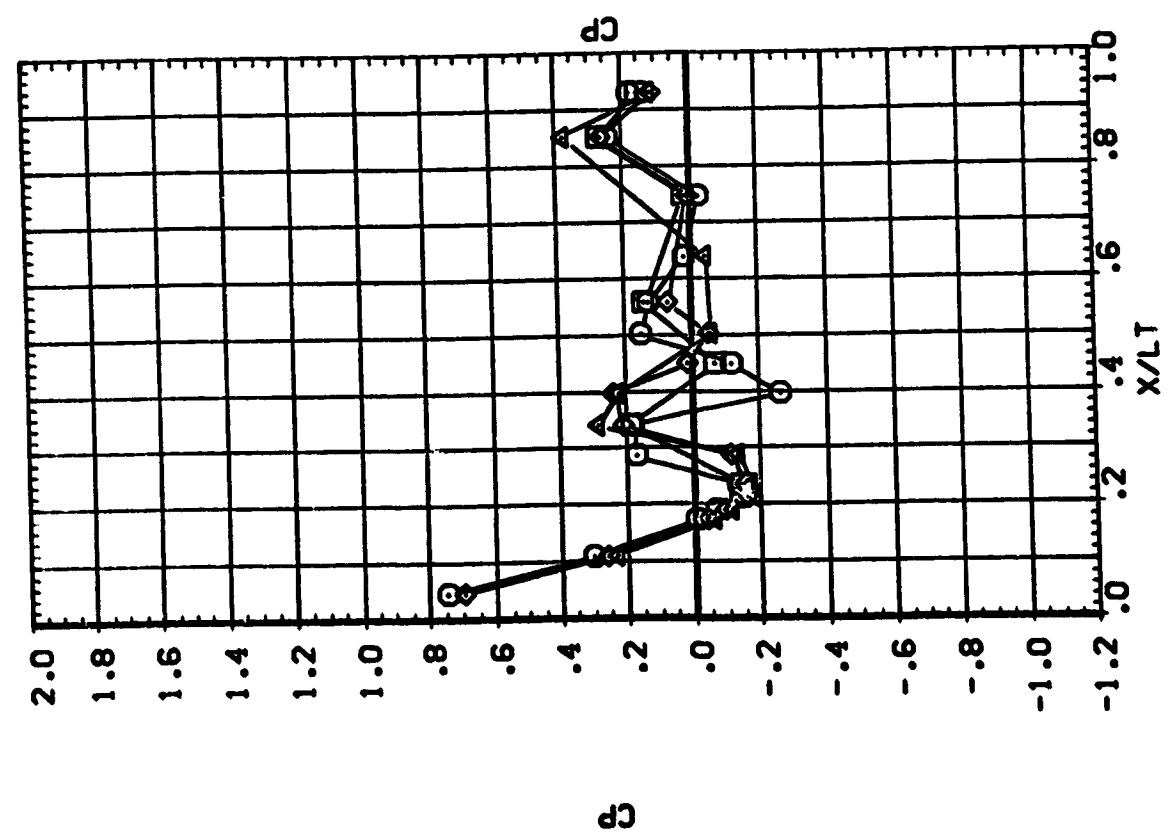
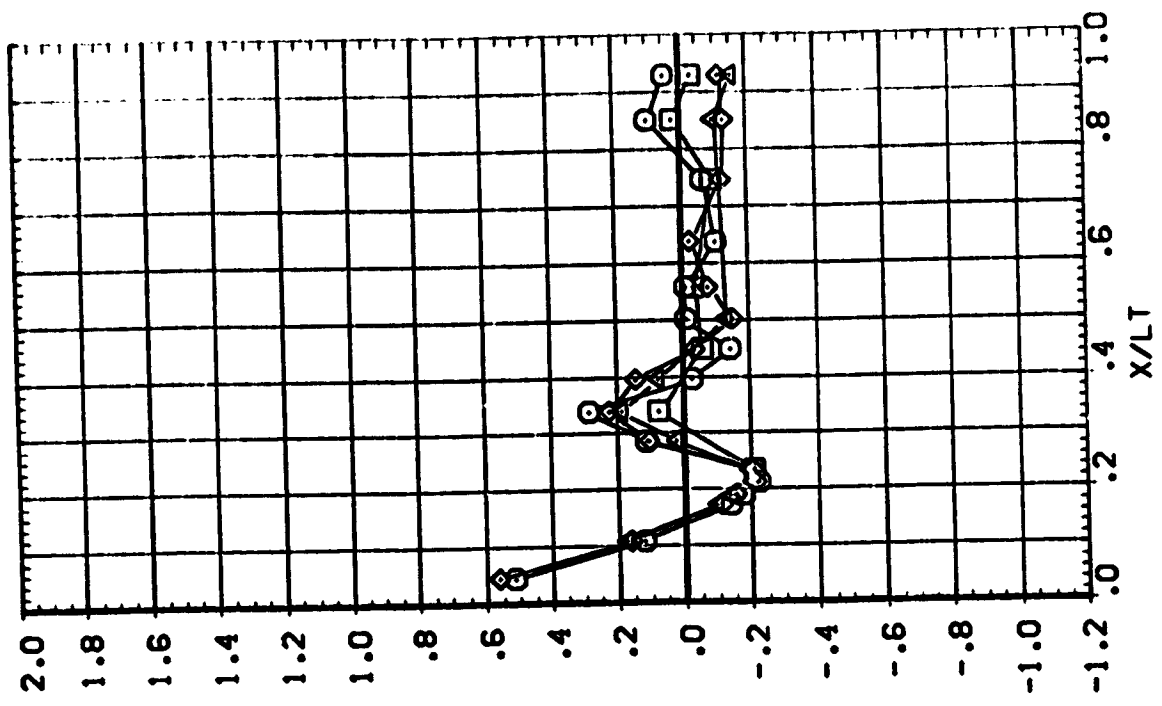
SYMBOL
○
□
◇
△

PHI
120.000
135.000
150.000
165.000

BETAT
-5.080
5.050

MACH
1.555

PARAMETRIC VALUES
ALPHAT .000
RUDER .000
RUDFLR .000
D98INC .000
ELEVON .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



AMES 97-707 IA9 02A + S3 + T9 EXTERNAL TANK (R80T06)

SYMBOL
○ □

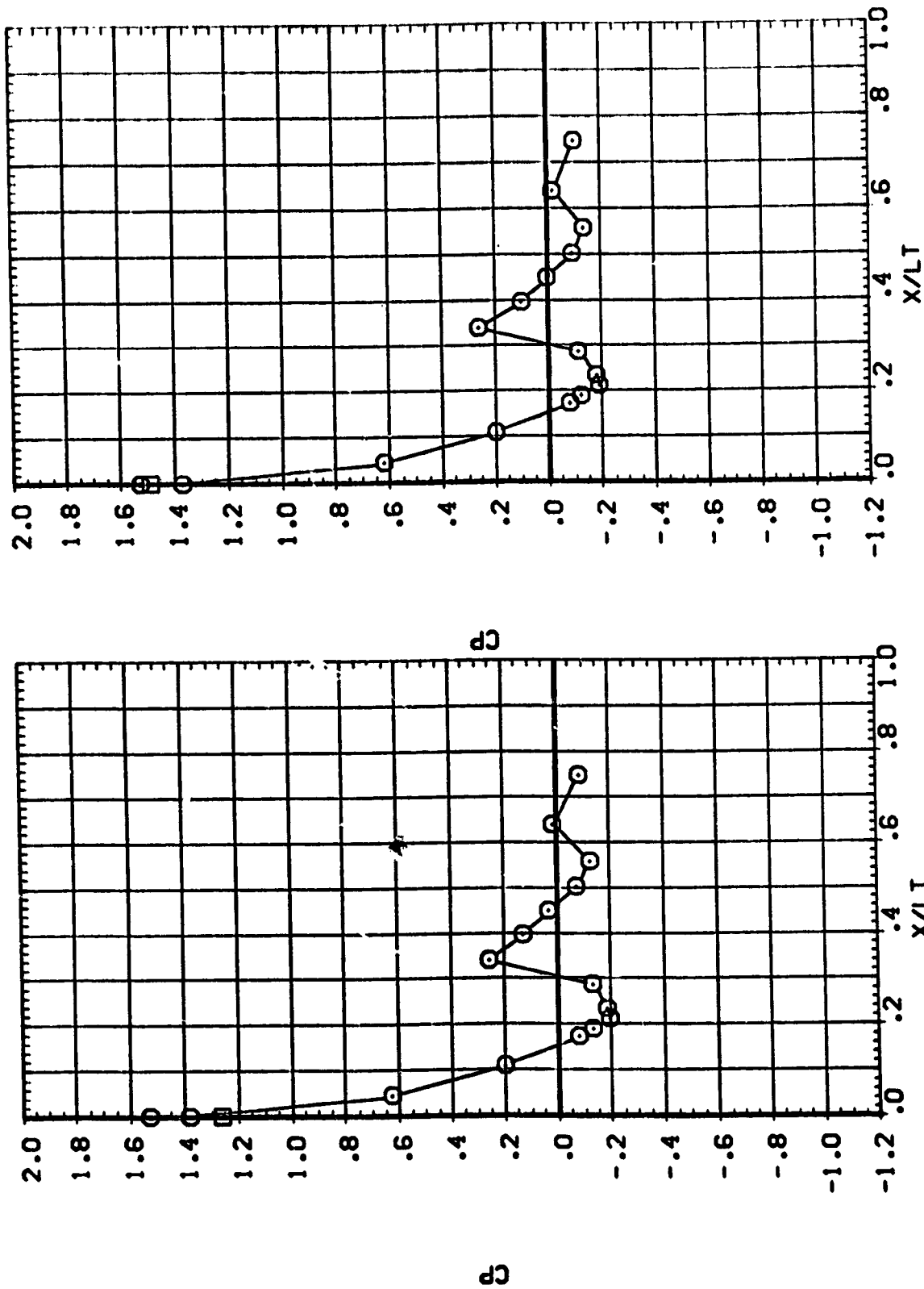
PHI 180.000
270.000

BETAT -5.080
5.050

MACH 1.555

PARAMETRIC VALUES
ALPHAT .000
RUDDER .000
RUOFLR .000

.500
.000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBCT06)

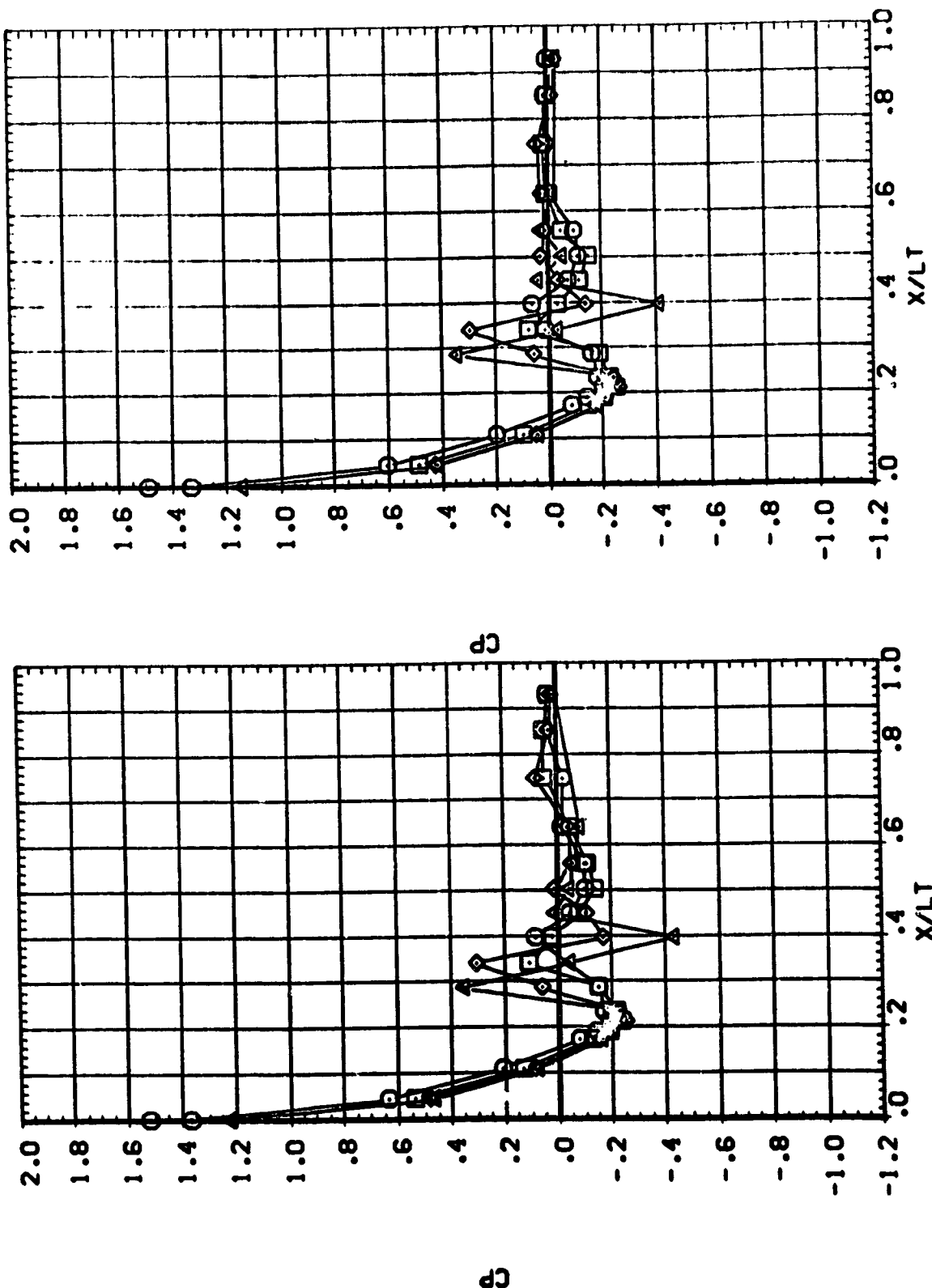
SYMBOL
 ○
 □
 ◇
 △

PHI .000
 30.000
 60.000
 90.000

BETAT 7.060
 9.080

MACH 1.555

PARAMETRIC VALUES
 ALPHA: .000
 RUDER .000
 ROLLER .000
 CRBINC .500
 ELEVON .000



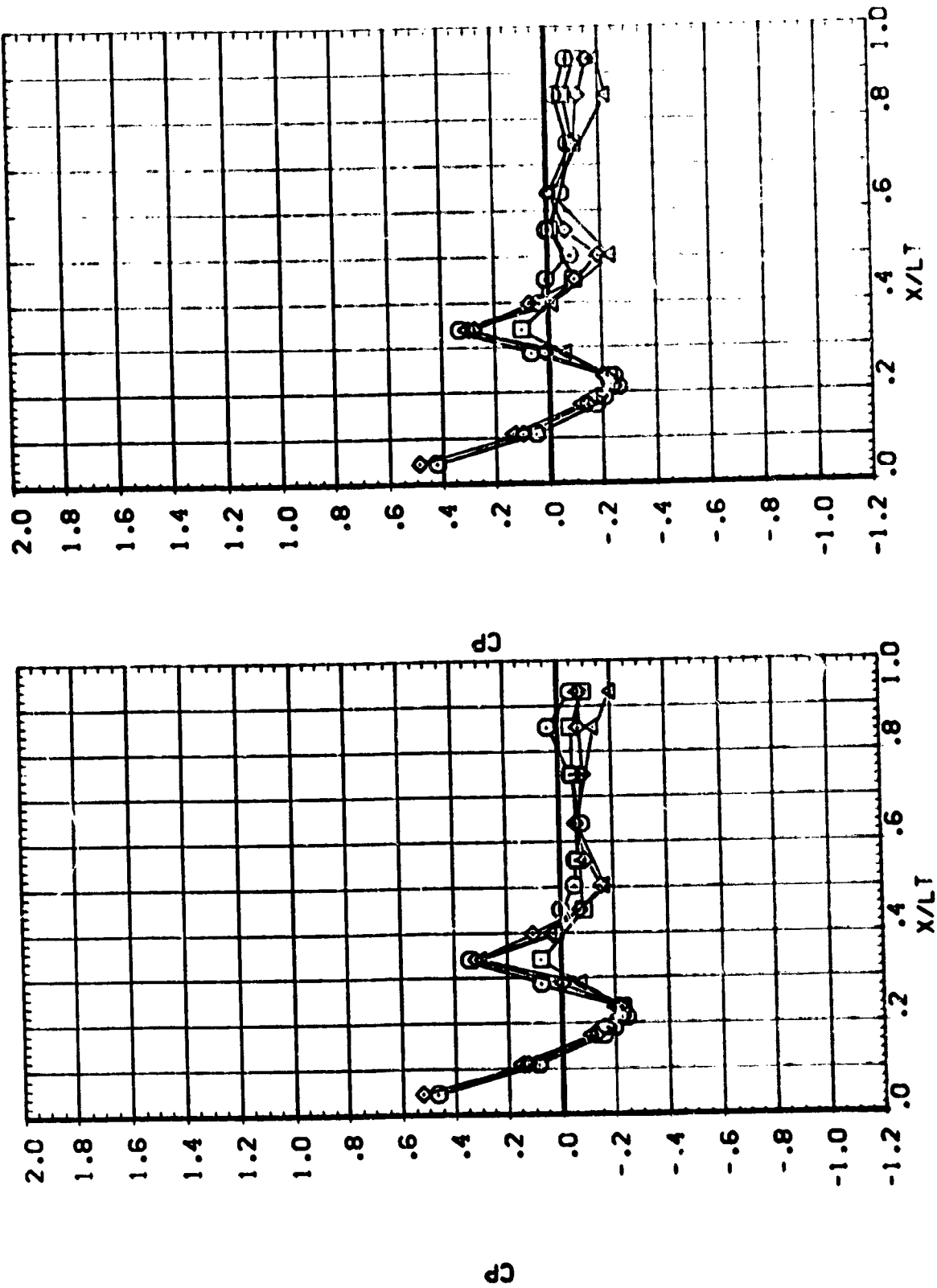
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

70545

PHI	BETAT	MACH
120.000	7.060	1.555
135.000	9.090	
150.000		
165.000		

PARAMETRIC VALUES	
ALPHAT	.000
BETAB	.000
DELTA	.000
EPSI	.000
ETA	.000
THETA	.000
PHI	.000
PSI	.000
OMEGA	.000
SCALING	.000
SEVEN	.000
EIGHT	.000
NINE	.000
TEN	.000
ELEVEN	.000
THIRTEEN	.000
FIFTEEN	.000
SIXTEEN	.000
SEVENTEEN	.000
EIGHTEEN	.000
NINETEEN	.000
TWENTY	.000
ONE	.000
TWO	.000
THREE	.000
FOUR	.000
FIVE	.000
SIX	.000
SEVEN	.000
EIGHT	.000
NINE	.000
TEN	.000
ELEVEN	.000
THIRTEEN	.000
FIFTEEN	.000
SIXTEEN	.000
SEVENTEEN	.000
EIGHTEEN	.000
NINETEEN	.000
TWENTY	.000
ONE	.000
TWO	.000
THREE	.000
FOUR	.000
FIVE	.000
SIX	.000
SEVEN	.000
EIGHT	.000
NINE	.000
TEN	.000
ELEVEN	.000
THIRTEEN	.000
FIFTEEN	.000
SIXTEEN	.000
SEVENTEEN	.000
EIGHTEEN	.000
NINETEEN	.000
TWENTY	.000
ONE	.000
TWO	.000
THREE	.000
FOUR	.000
FIVE	.000
SIX	.000
SEVEN	.000
EIGHT	.000
NINE	.000
TEN	.000
ELEVEN	.000
THIRTEEN	.000
FIFTEEN	.000
SIXTEEN	.000
SEVENTEEN	.000
EIGHTEEN	.000
NINETEEN	.000
TWENTY	.000
ONE	.000
TWO	.000
THREE	.000
FOUR	.000
FIVE	.000
SIX	.000
SEVEN	.000
EIGHT	.000
NINE	.000
TEN	.000
ELEVEN	.000
THIRTEEN	.000
FIFTEEN	.000
SIXTEEN	.000
SEVENTEEN	.000
EIGHTEEN	.000
NINETEEN	.000
TWENTY	.000
ONE	.000
TWO	.000
THREE	.000
FOUR	.000
FIVE	.000
SIX	.000
SEVEN	.000
EIGHT	.000
NINE	.000
TEN	.000
ELEVEN	.000
THIRTEEN	.000
FIFTEEN	.000
SIXTEEN	.000
SEVENTEEN	.000
EIGHTEEN	.000
NINETEEN	.000
TWENTY	.000
ONE	.000
TWO	.000
THREE	.000
FOUR	.000
FIVE	.000
SIX	.000
SEVEN	.000
EIGHT	.000
NINE	.000
TEN	.000
ELEVEN	.000
THIRTEEN	.000
FIFTEEN	.000
SIXTEEN	.000
SEVENTEEN	.000
EIGHTEEN	.000
NINETEEN	.000
TWENTY	.000
ONE	.000
TWO	.000
THREE	.000
FOUR	.000
FIVE	.000
SIX	.000
SEVEN	.000
EIGHT	.000
NINE	.000
TEN	.000
ELEVEN	.000
THIRTEEN	.000
FIFTEEN	.000
SIXTEEN	.000
SEVENTEEN	.000
EIGHTEEN	.000
NINETEEN	.000
TWENTY	.000
ONE	.000
TWO	.000
THREE	.000
FOUR	.000
FIVE	.000
SIX	.000
SEVEN	.000
EIGHT	.000
NINE	.000
TEN	.000
ELEVEN	.000
THIRTEEN	.000
FIFTEEN	.000
SIXTEEN	.000
SEVENTEEN	.000
EIGHTEEN	.000
NINETEEN	.000
TWENTY	.000
ONE	.000
TWO	.000
THREE	



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 1A9 C2A + S3 + 19 EXTERNAL TANK (RBC106)

SYMBOL

PARAMETER VALUES

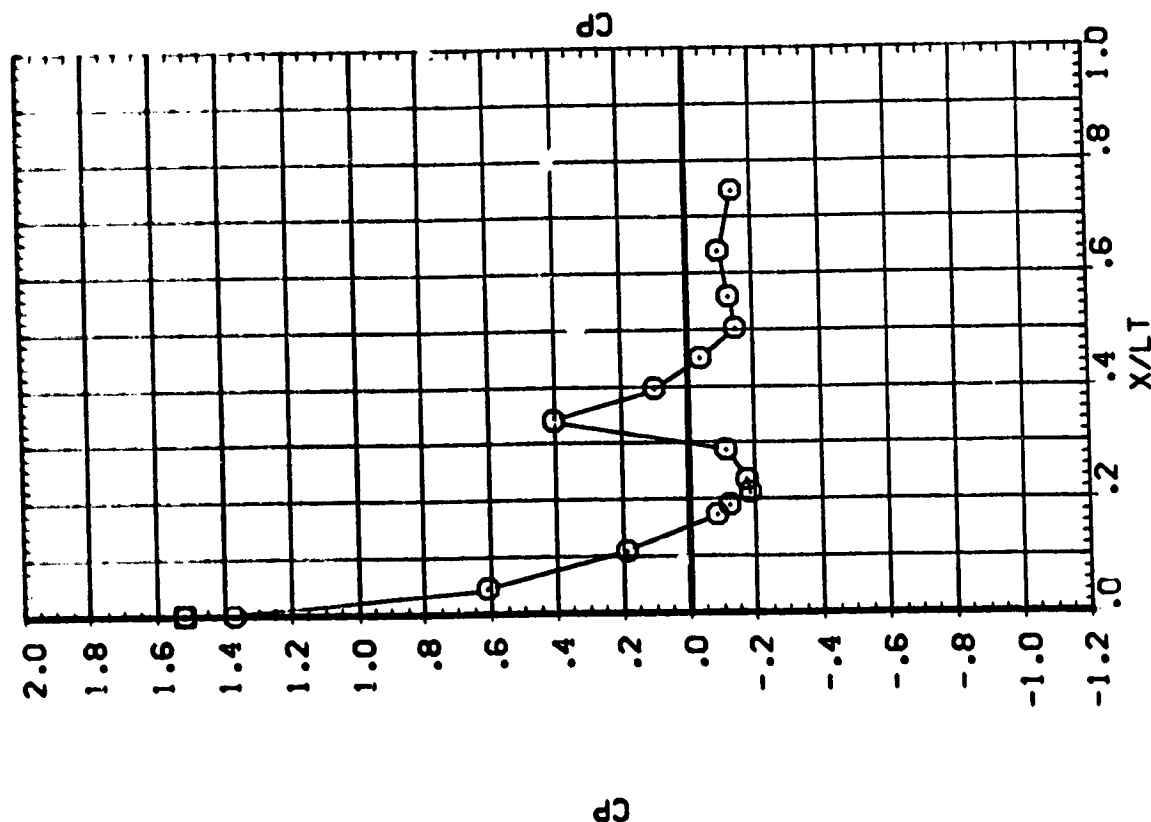
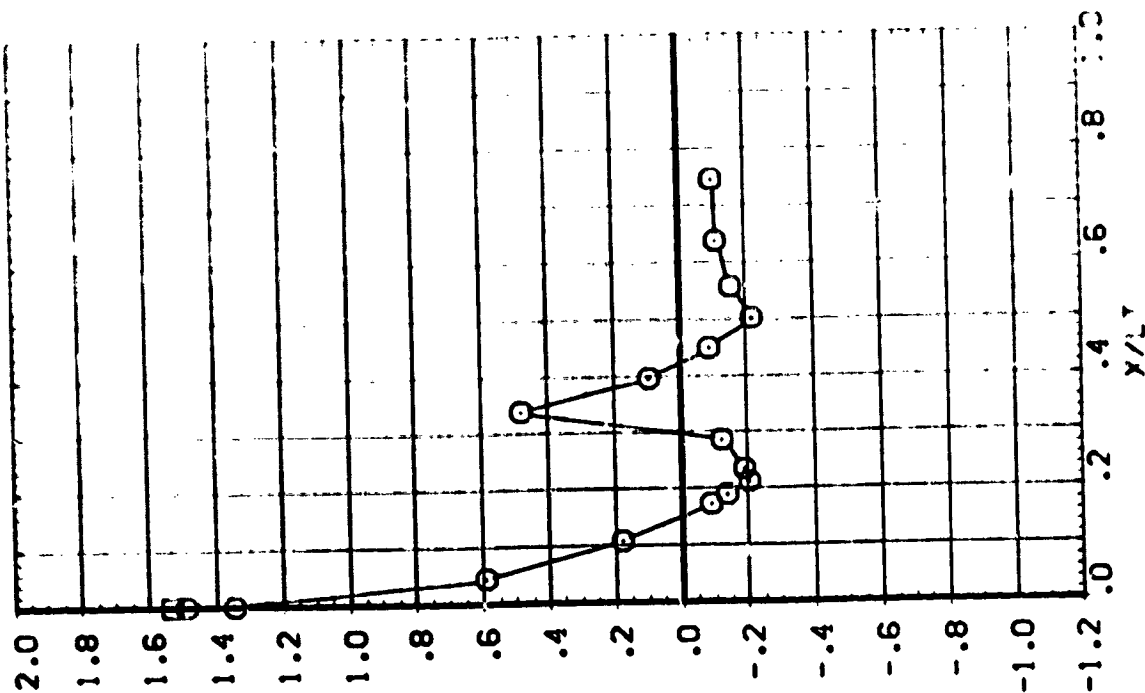
ALPHA
RADIUS
RADIUS

BETA

MACH

180.000
270.000

1.553
9.090



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

[RB0106]

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

SYMBOL
 ○ □ ◇ △

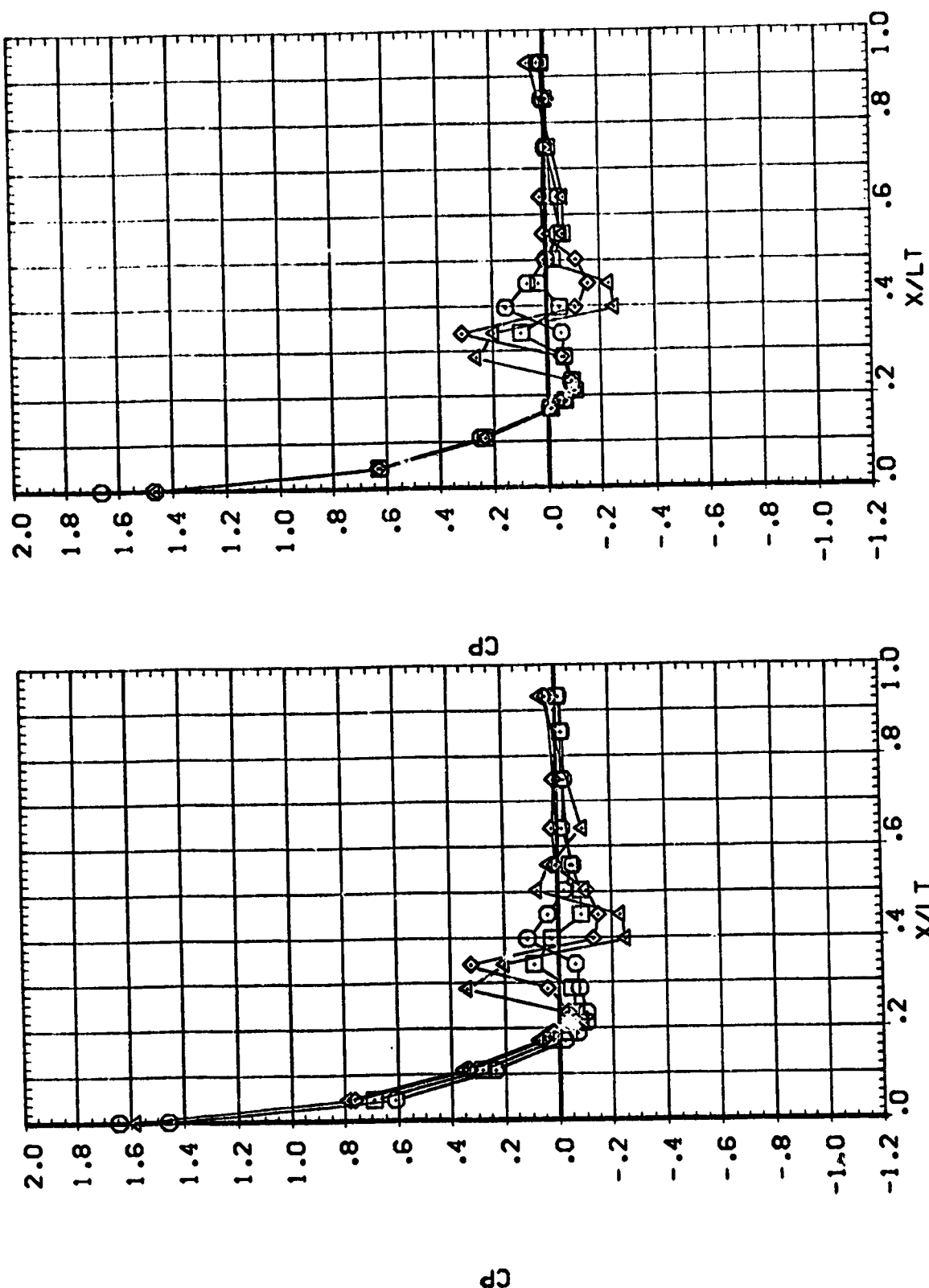
PHI .000
 30.000
 60.000
 90.000

BETAT -6.250
 -.130

MACH 2.000

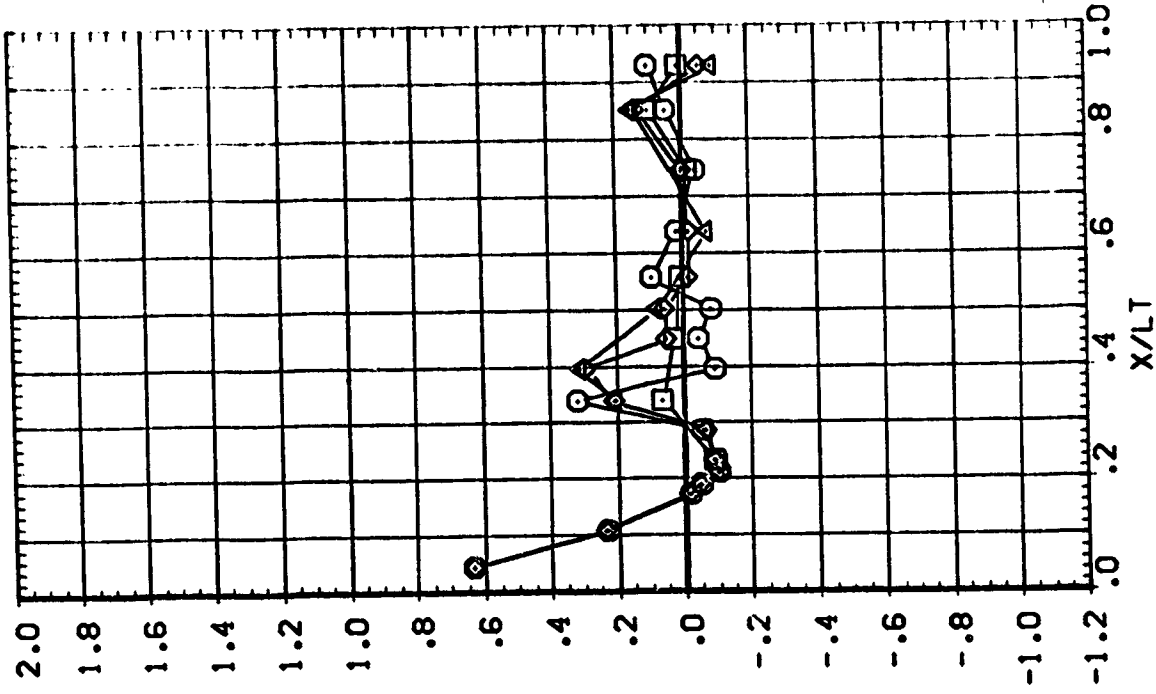
PARAMETRIC VALUES
 ALPHA1 .000
 RUDDER .000
 RUDDER .000

ORBITAL .500
 ELEVON .000



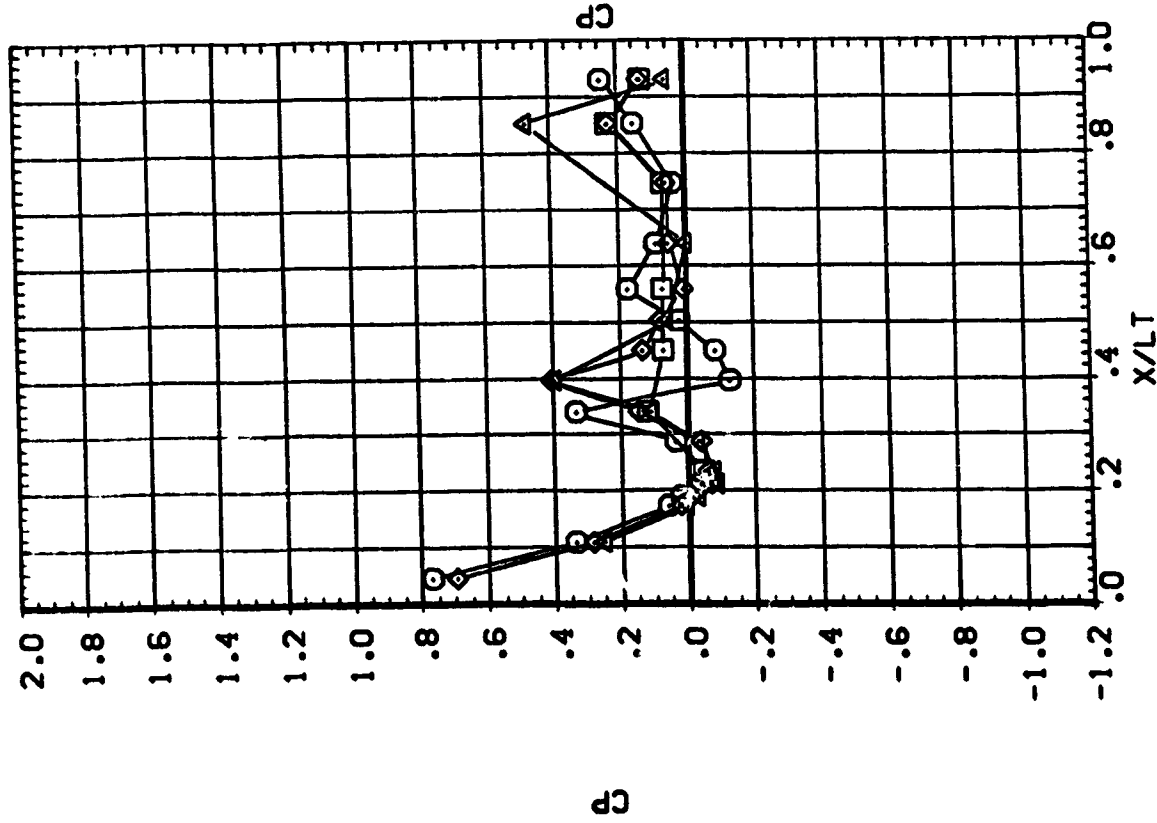
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

PARAMETRIC VALUES
 ALPHAT .000 ORBINC .500
 RUDDER .000 ELEVON .000
 RUOFLR .000



SYMBOL
 ○ 120.000
 □ 135.000
 ◇ 150.000
 △ 165.000

BETAT -6.250
 MACH 2.000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK (RB0T06)

SYMBOL
○
□

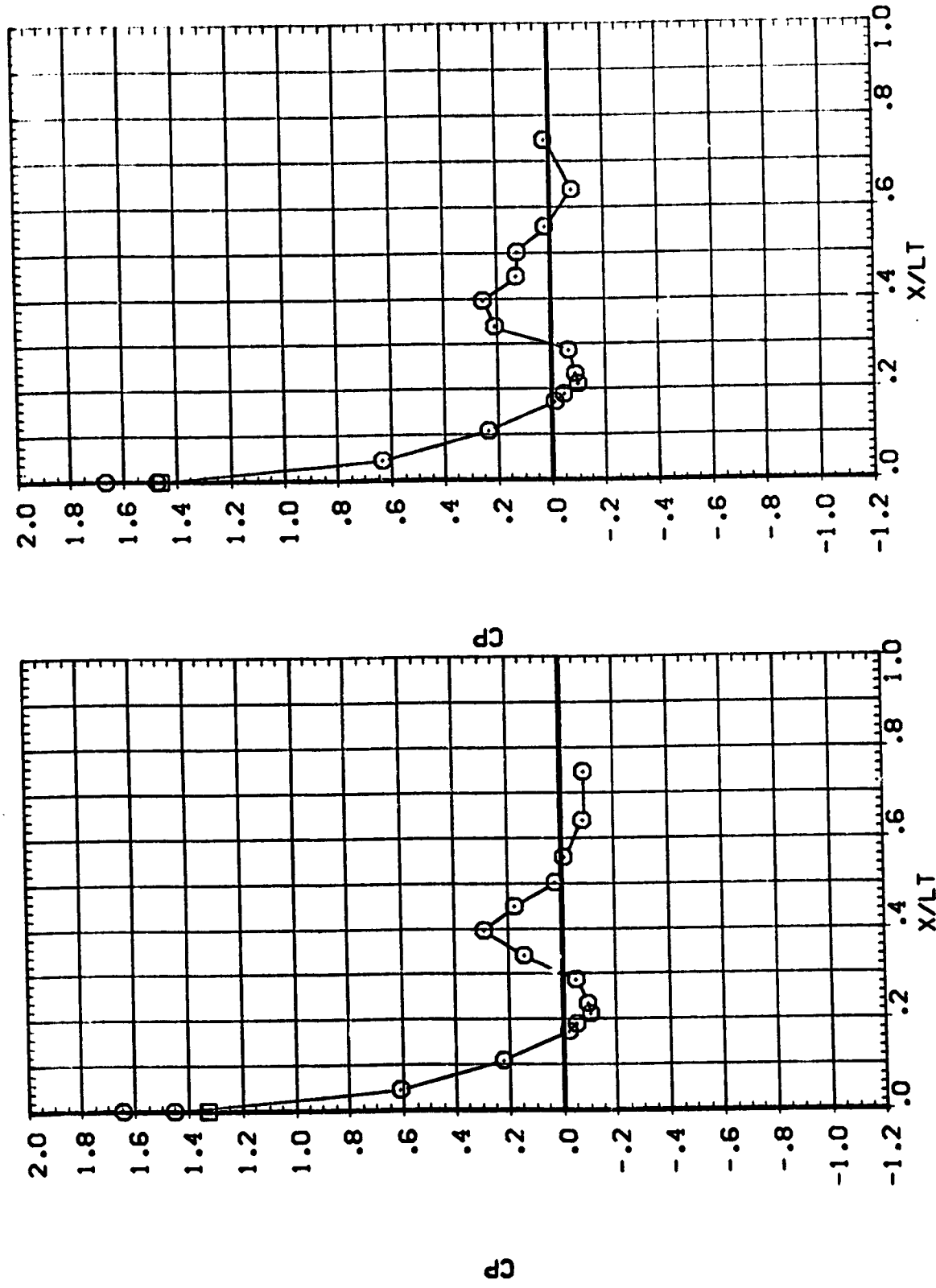
PHI 180.000
270.000

BETA 7 -6.250
-1.130

MACH 2.000

PARAMETRIC VALUES
ALPHAT .000
RUDDER .000
RUDFLR .000

.500
.000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

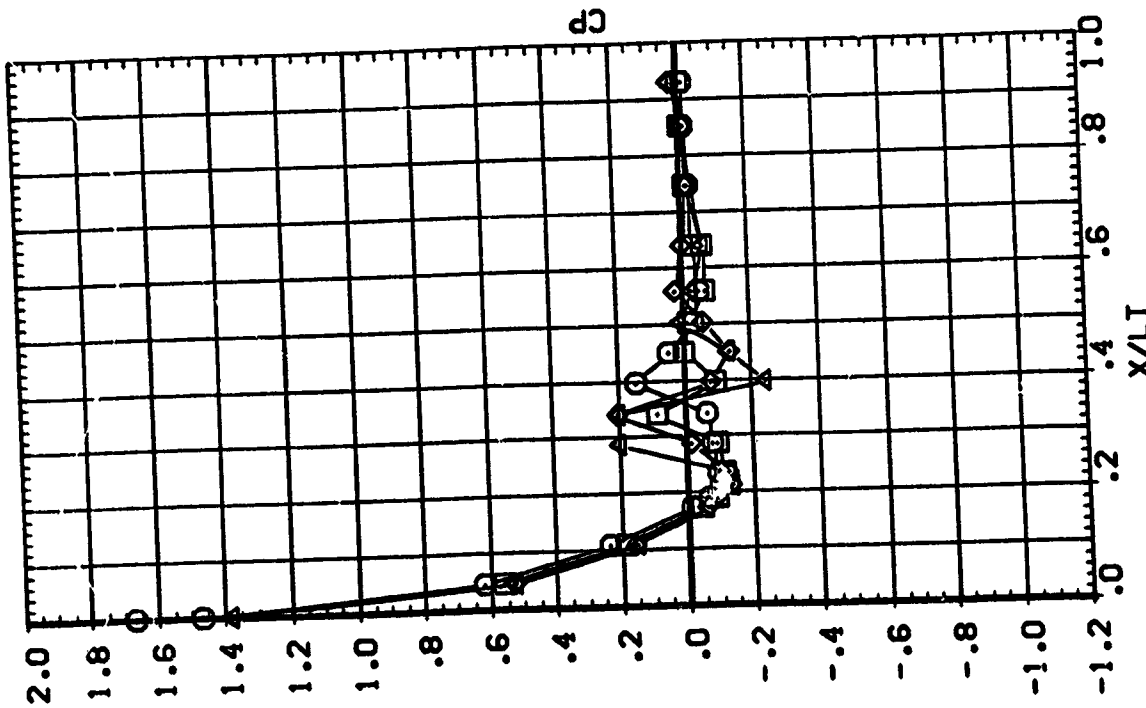
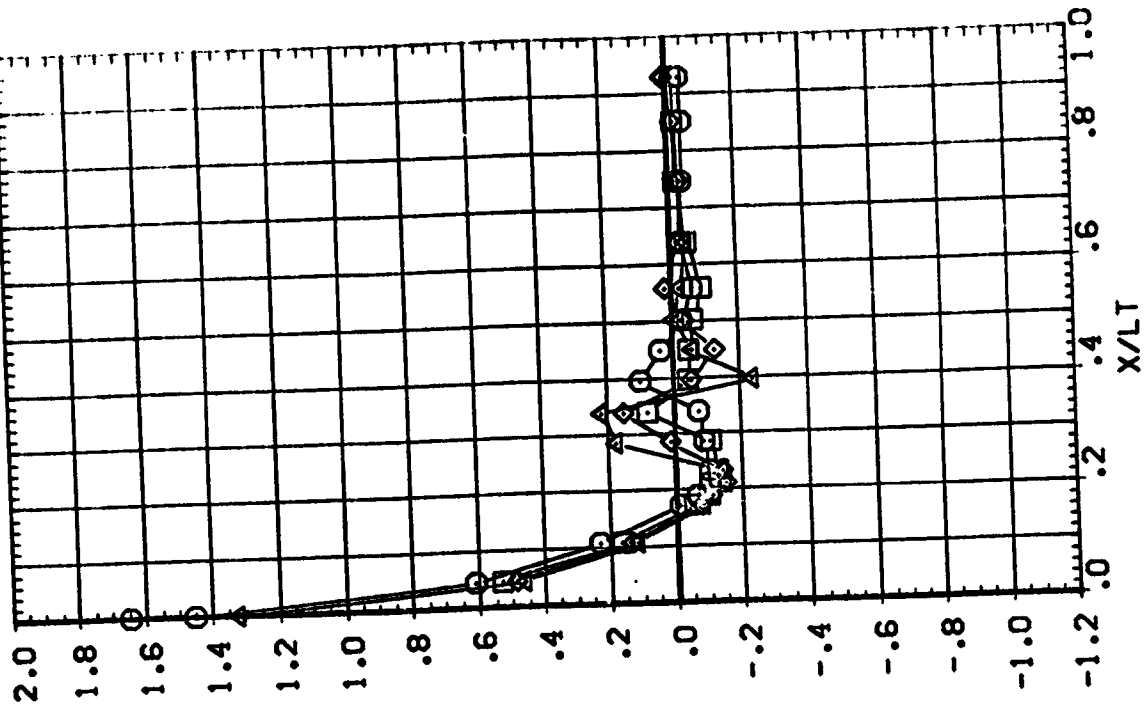
SYMBOL
 ○ □ ◇ △

PHI .000
 30.000
 60.000
 90.000

BETAT 3.950
 5.980

MACH 2.000

PARAMETRIC VALUES
 ALPHAT .000
 RUDDER .000
 RUOFLR .000
 CRBINC .000
 ELEVON .000
 SC0 .000



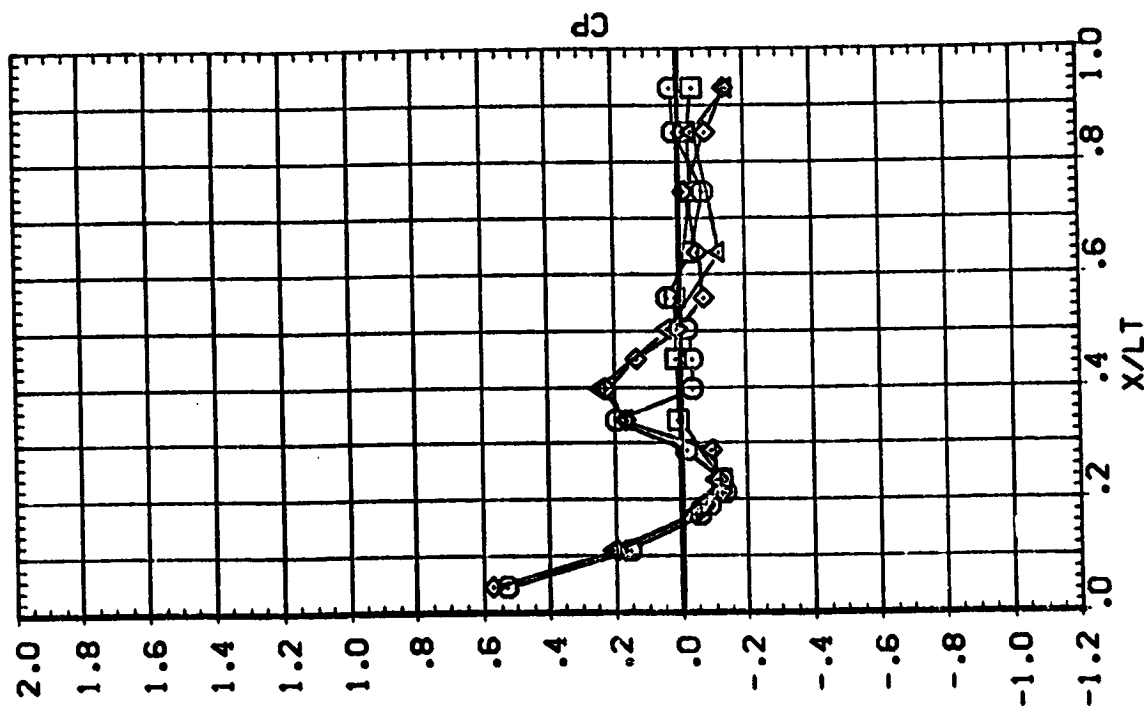
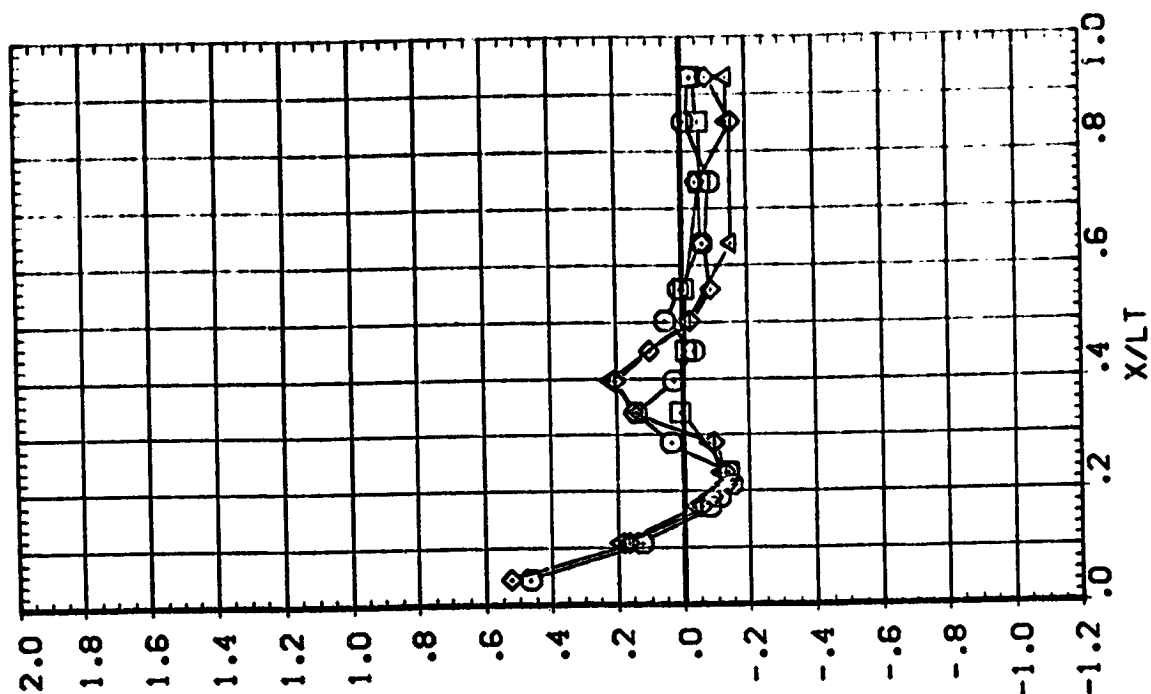
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

(RB0T06)

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

PARAMETRIC VALUES
 ALPHAT .000 SRBINC .500
 RUDDER .000 ELEVON .000
 RUOFLR .000

SYMBOL PH1 BETAT MACH
 120.000 3.950 2.000
 135.000 5.980
 150.000
 165.000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

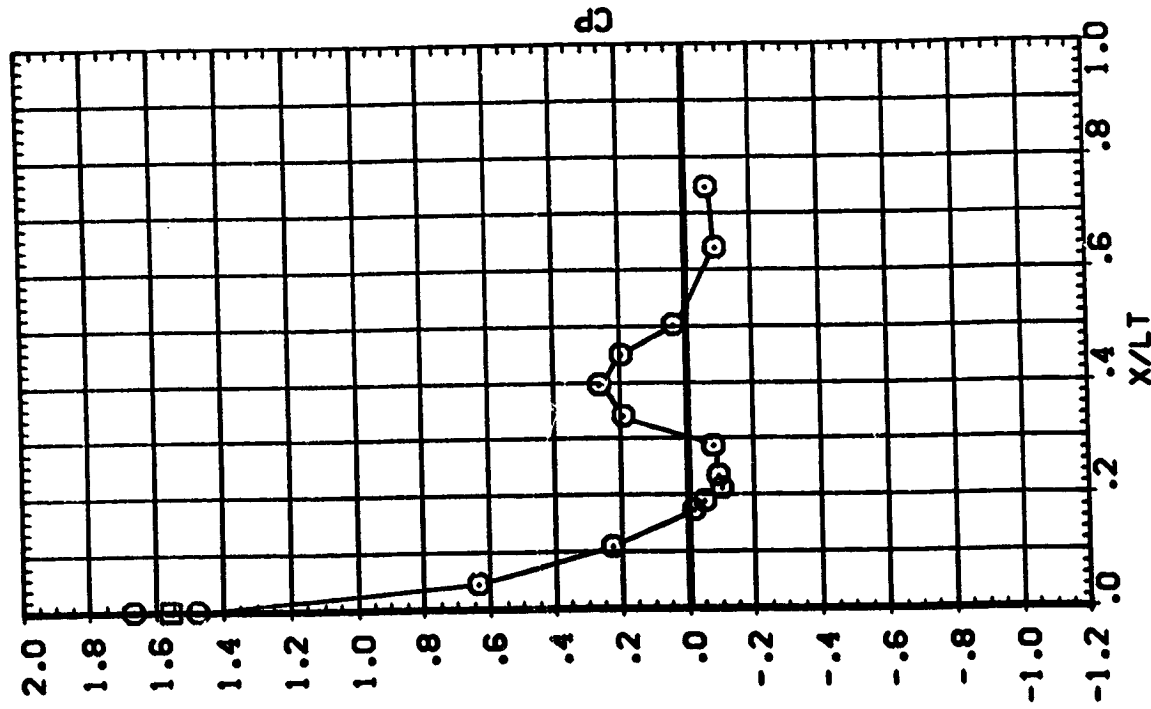
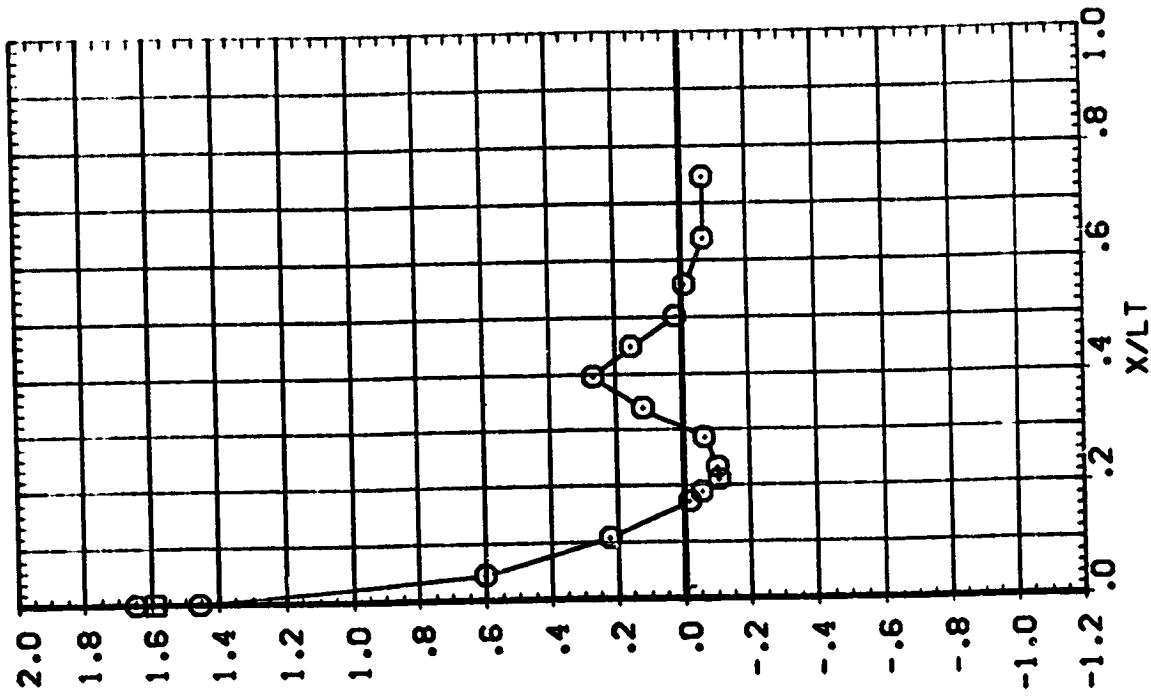
SYMBOL
○
□

PHI 180.000
270.000

BETAT 3.950
5.980

MACH 2.000

PARAMETRIC VALUES
ALPHAT .000
RUDER .000
RCSLR .000
CRBINC .000
ELEVON .000
SCC .000



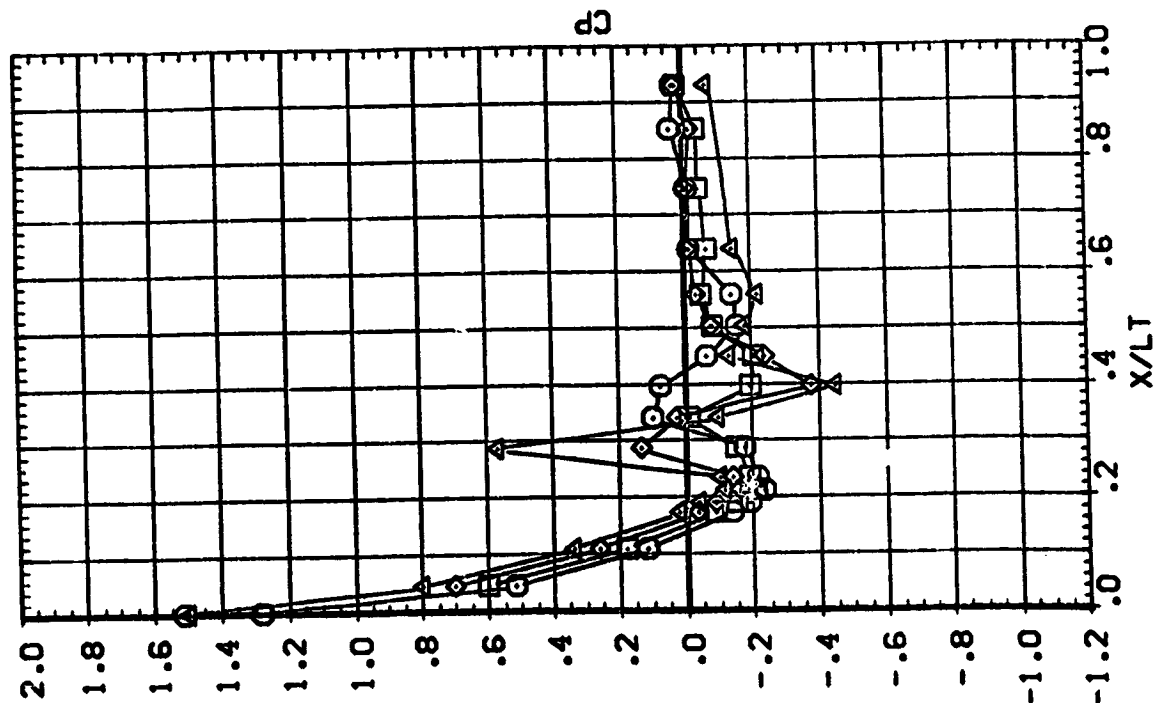
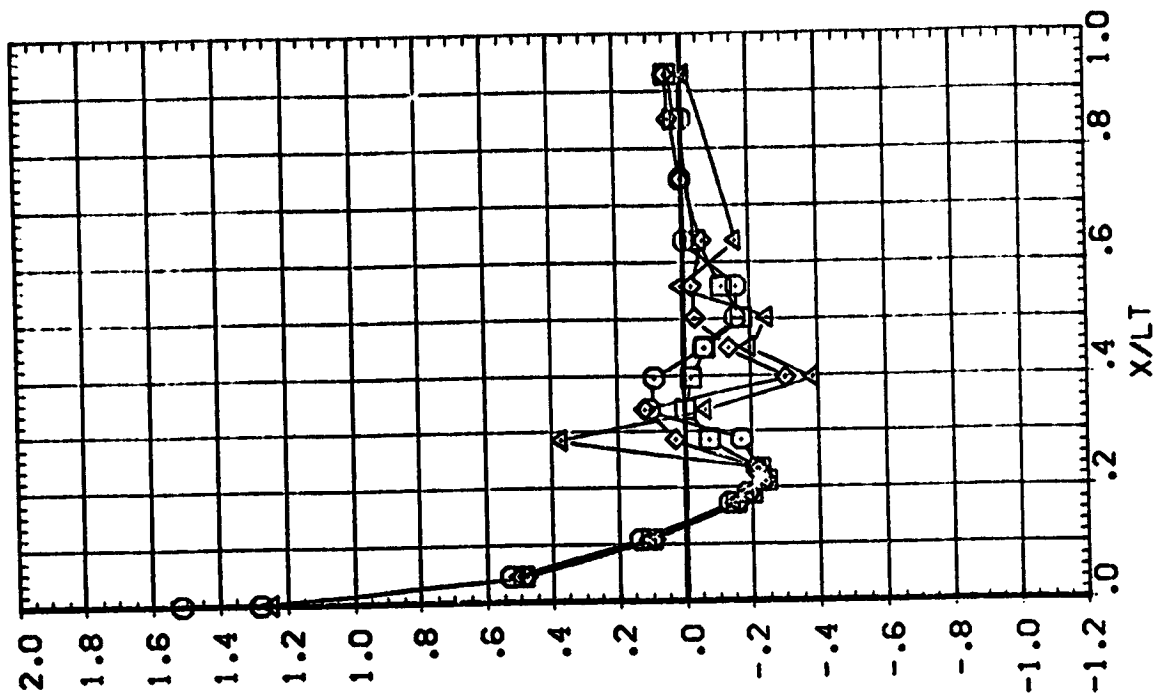
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK (RB0T08)

PARAMETRIC VALUES
 ALPHAAT -4.000 CRBINC .500
 RUDDER .000 ELEVON .000
 RUOFLR .000

PHI BETAT MACH
 .000 -6.150 1.555
 30.000 5.030
 60.000
 90.000

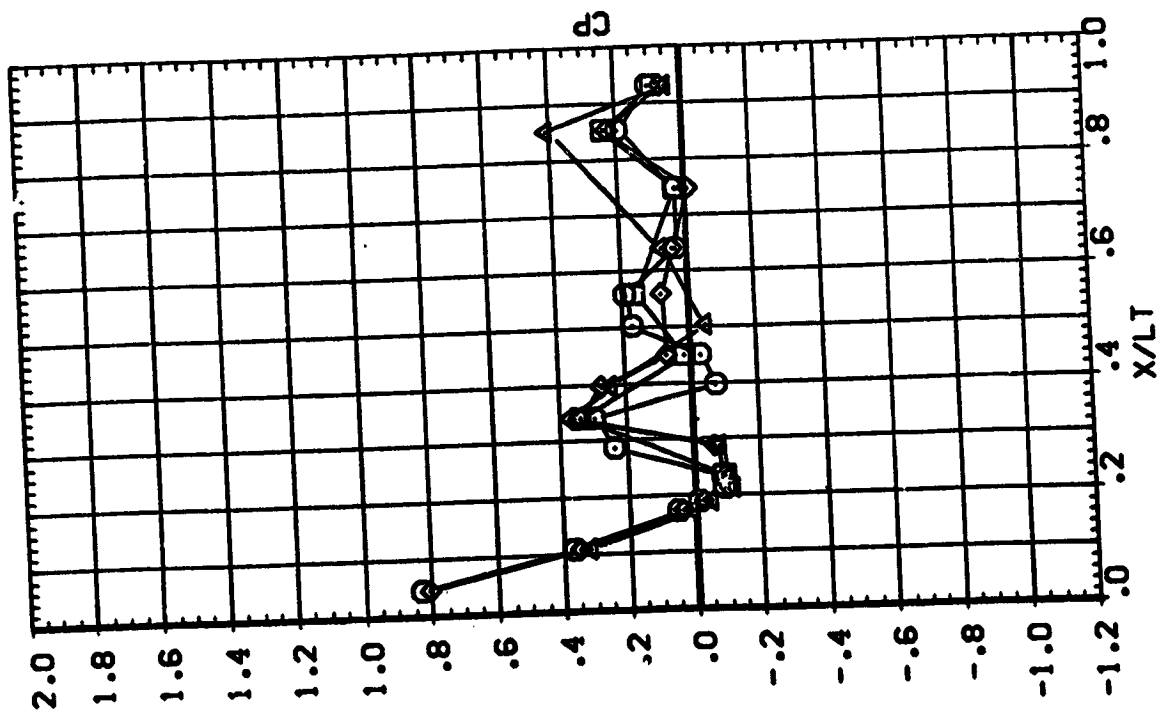
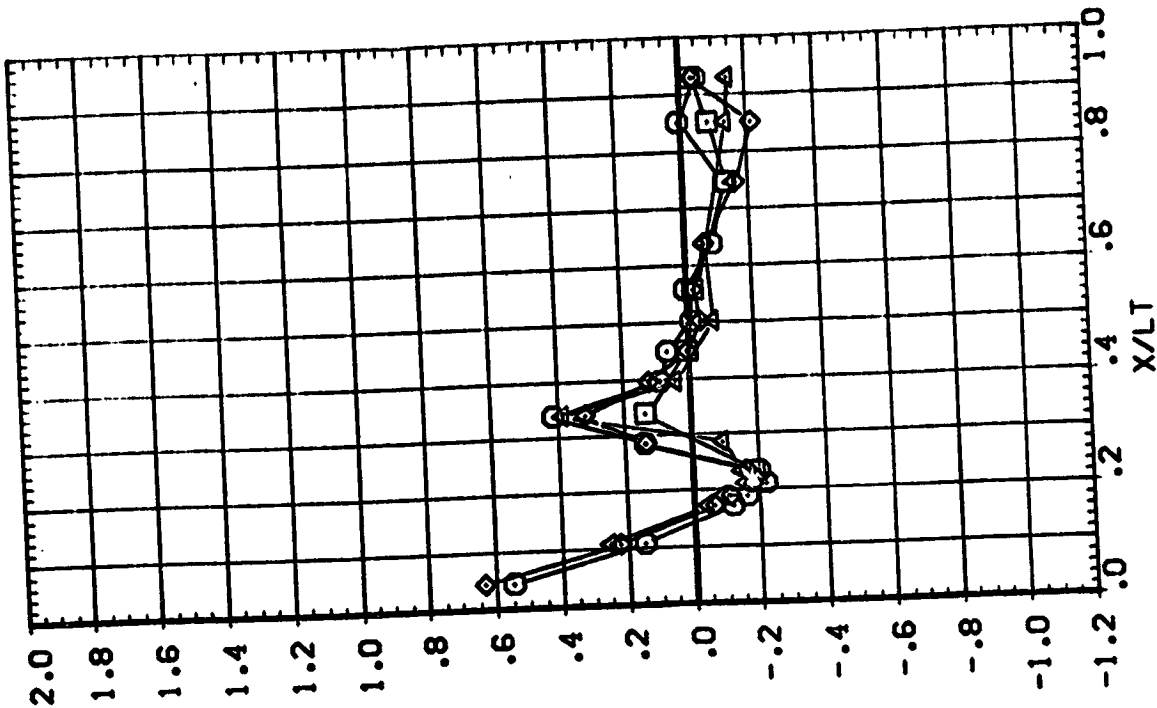
SYMBOL
 ○ □ ◇ △



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

ALPHAT
 RJOER
 RJOFLR
 ORBINC
 ELEVON
 .500
 .000
 .000

PH1
 120.000
 135.000
 150.000
 165.000
 BETAT
 -6.150
 5.030
 MACH
 1.555

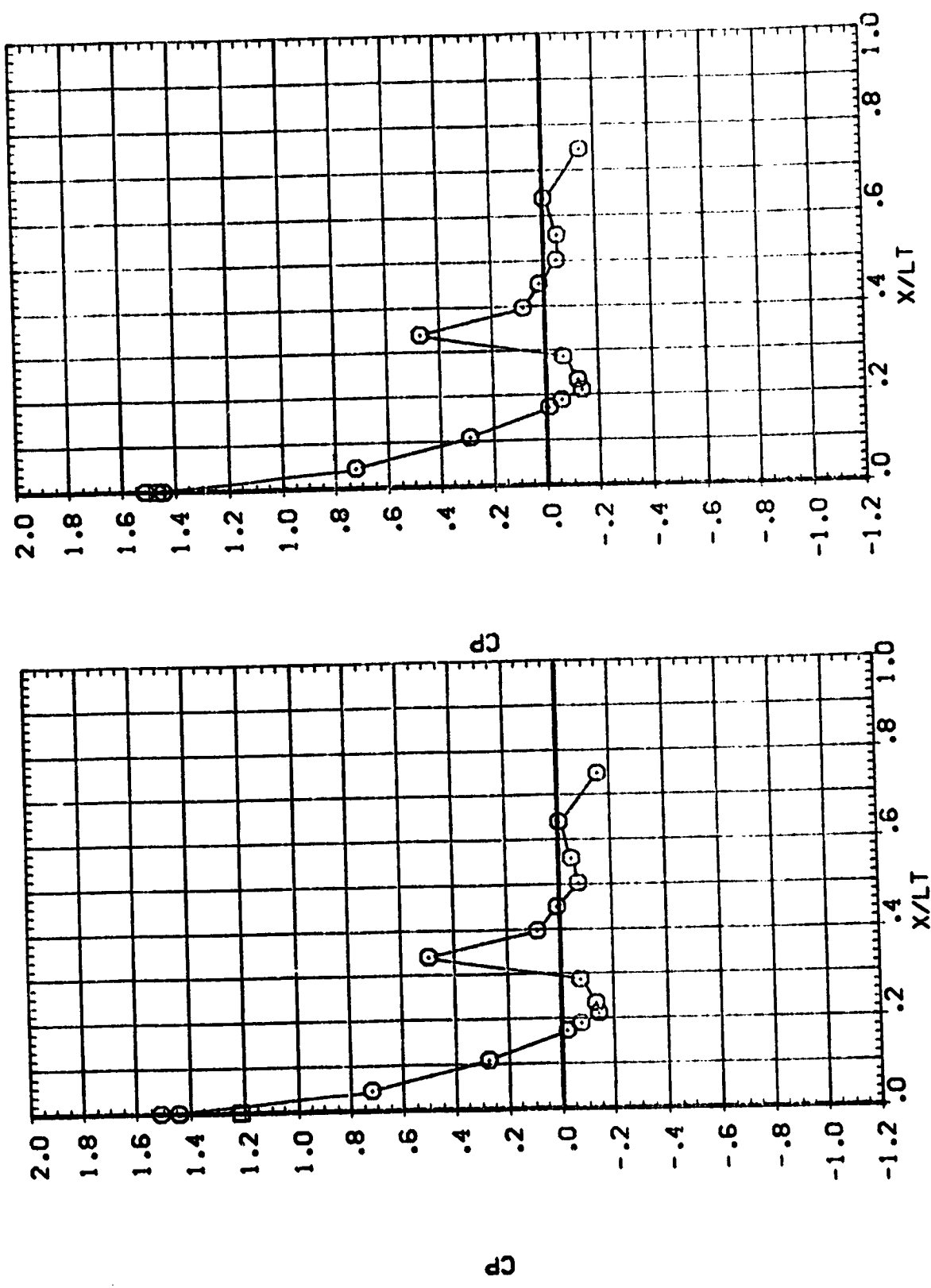


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

III

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK (RB0T08)

SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES
○	180.000	-6.150	1.555	ALPHAT
□	270.000	5.030		RJDER
				RJFLR
				-4.000
				.000
				.000
				.000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

(RB0T08)

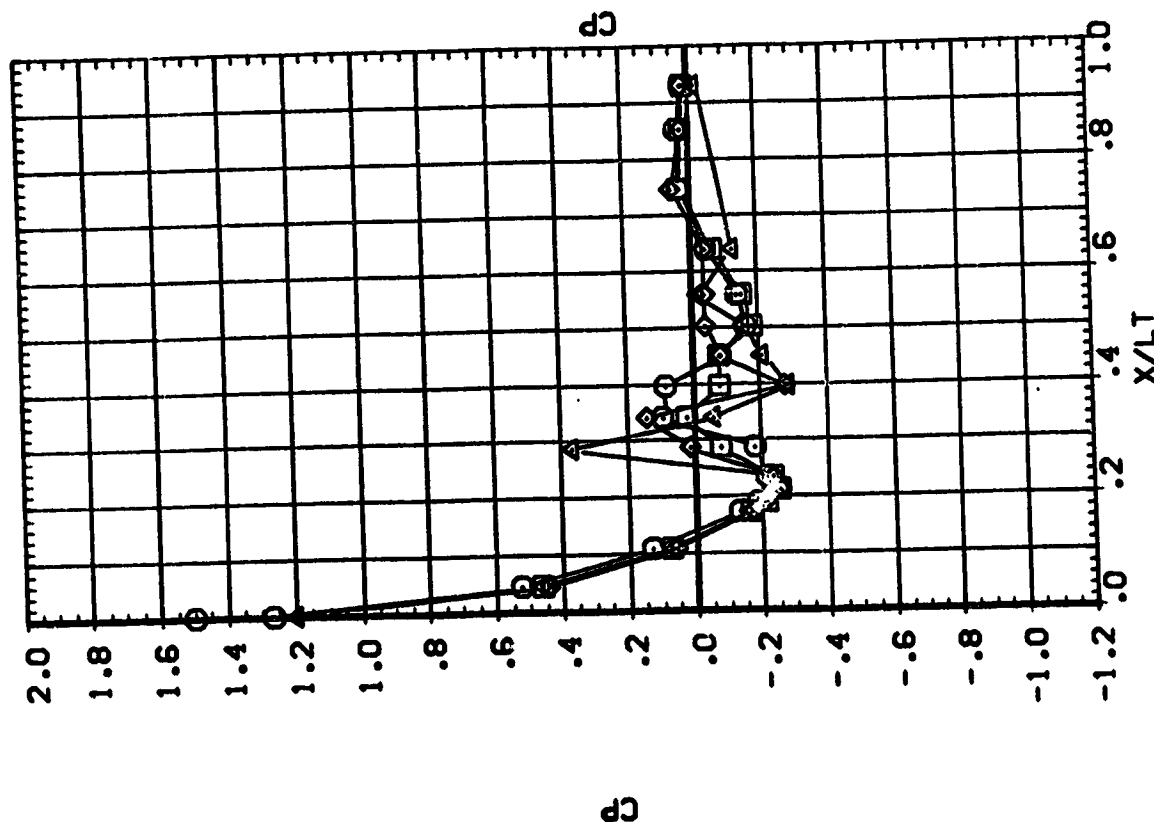
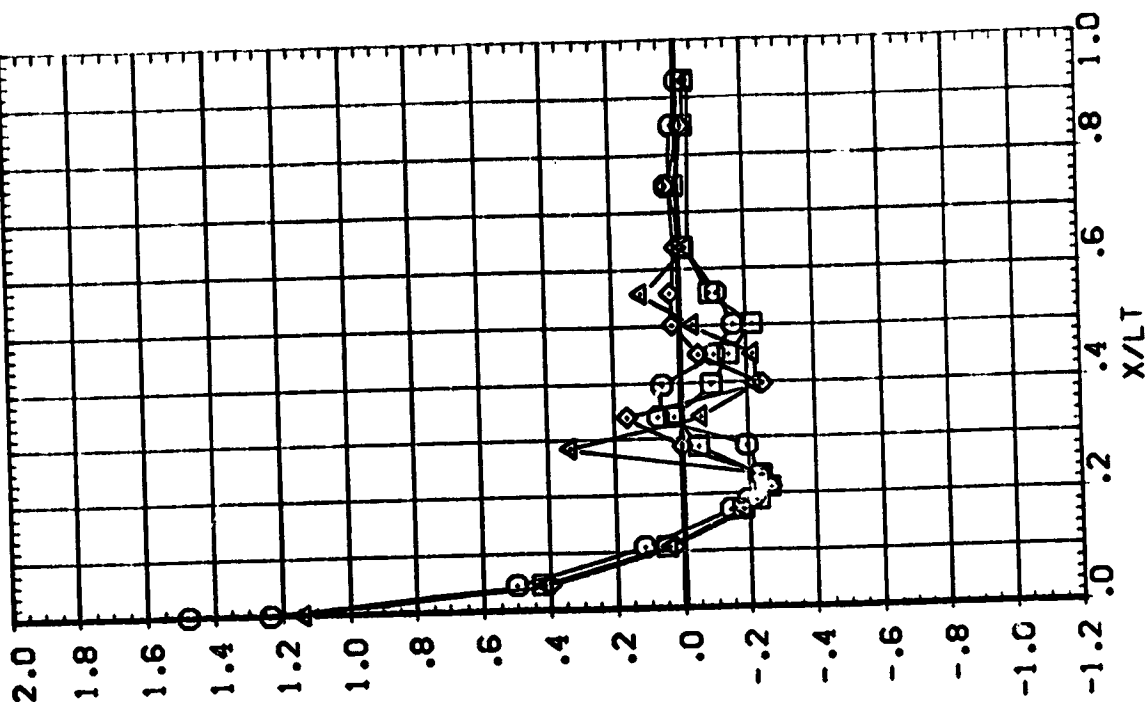
AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

SYMBOL
□
◇
△

PHI
.000
30.000
60.000
90.000

BETAT MACH
7.050 1.555
9.070

PARAMETRIC VALUES
ALPHAT -4.000 ORBINC .500
RUDDER .000 ELEVON .000
RUFELR .000

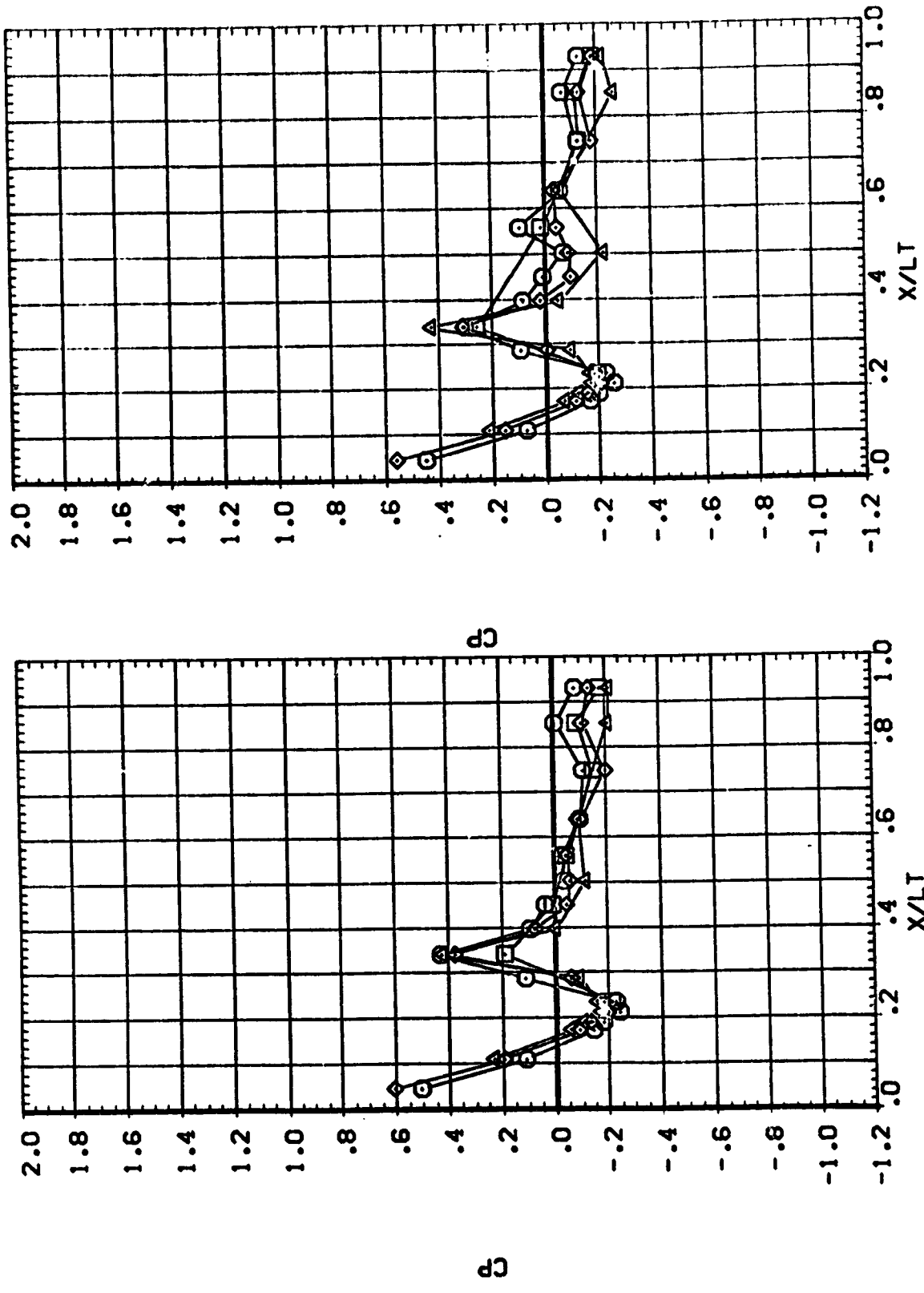


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

III

AMES 97-707 IA9 C2A + S3 + T9 EXTERNAL TANK (R33T08)

PHI	BETAT	MACH	ALPHAT	ORIGINC	PARAMETRIC VALUES
120.000	7.050	1.555	RJDDER	.000	-4.000
135.000	9.070		RJDFLR	.000	.500
150.000					.000
165.000					.000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

(RBCT08)

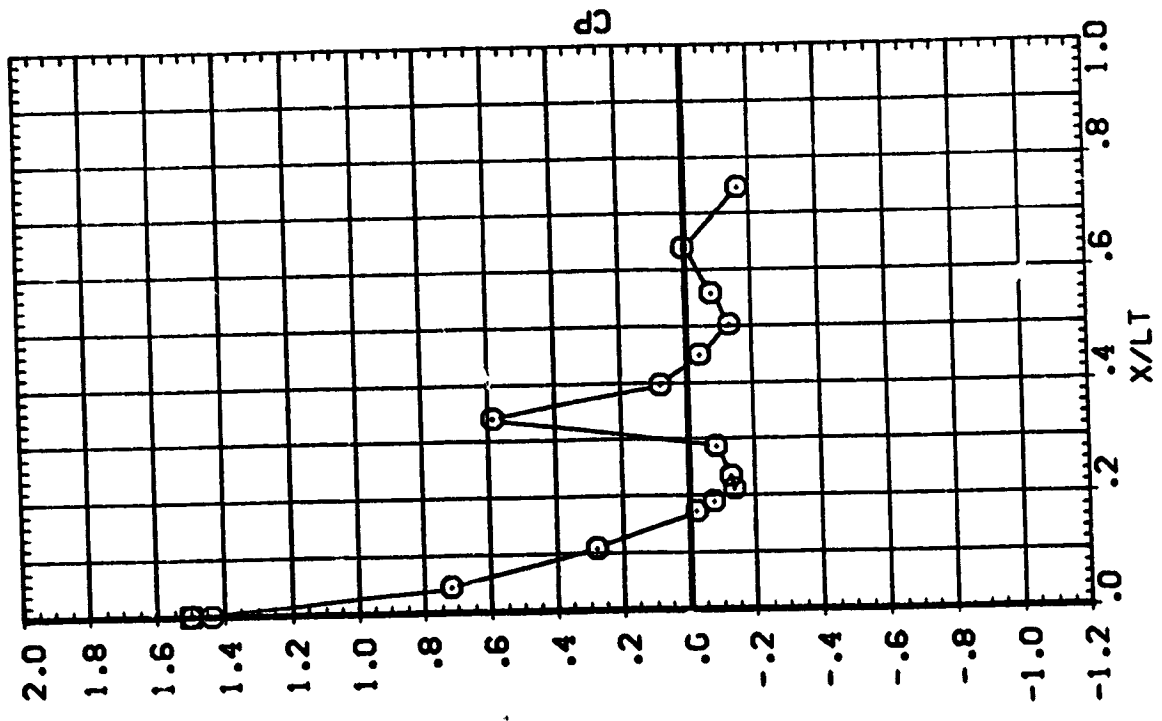
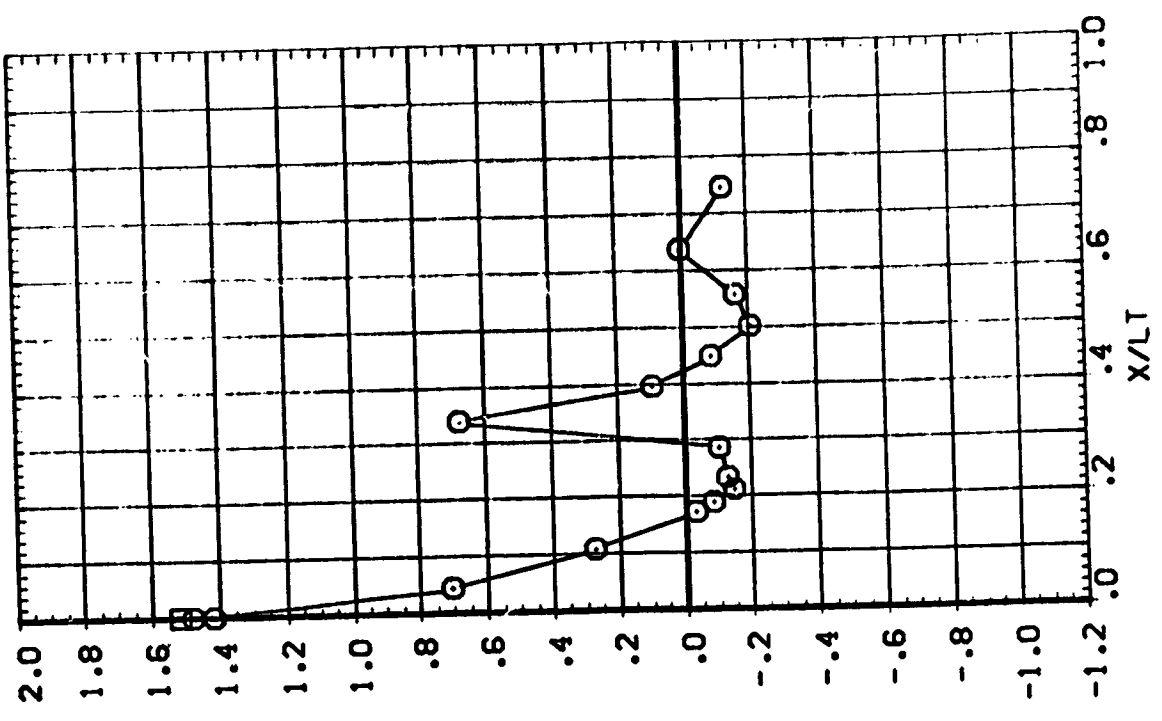
AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

PARAMETRIC VALUES
 -4.000 ORBINC
 .000 ELEVON
 .000

ALPHA
 RUDDER
 RUDDER

PHI 180.000 MACH 1.555
 270.000 7.050 9.070

SYMBOL
 □

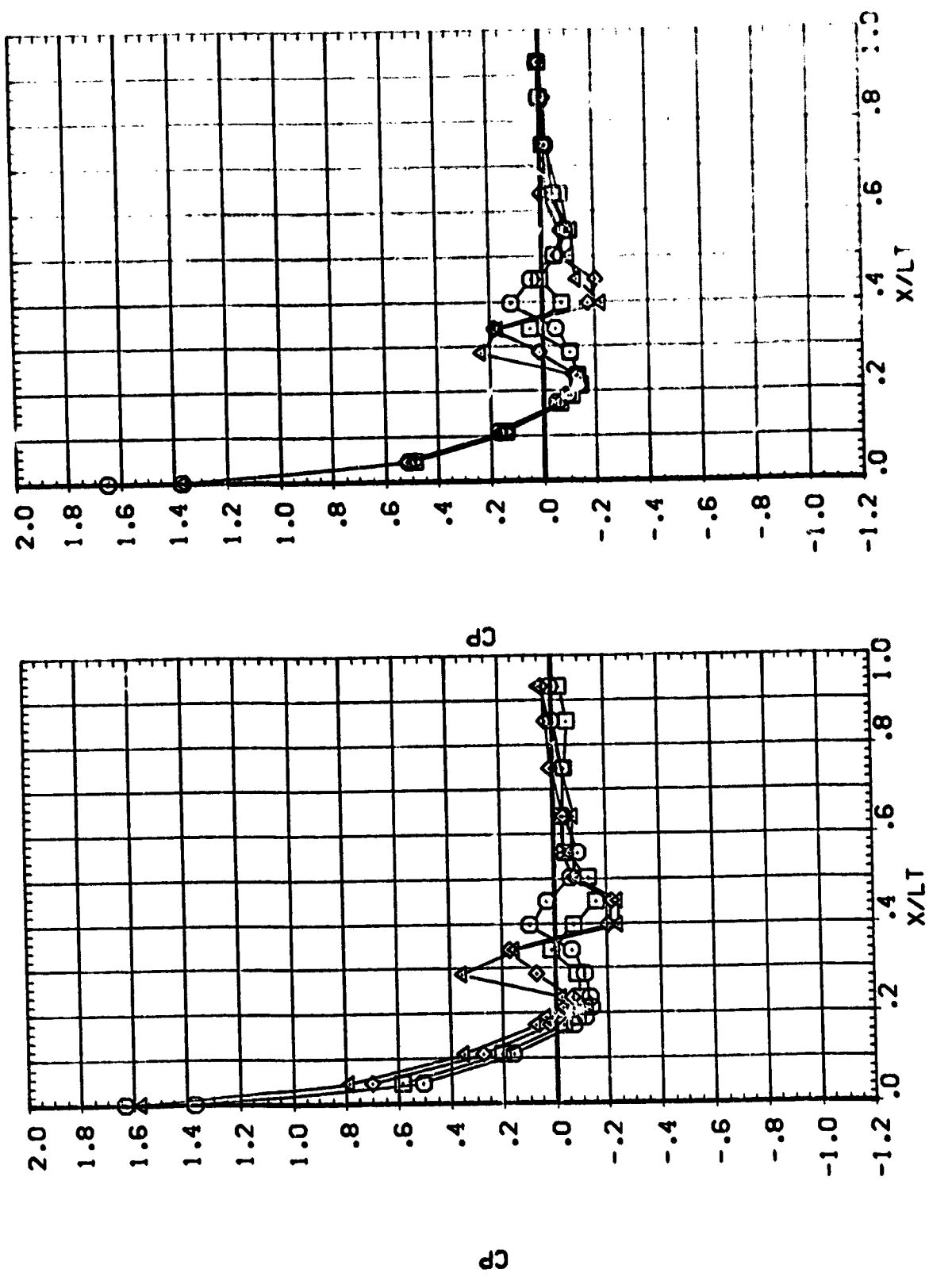


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

III

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK (RB0T08)

SYMBOL	PH-1	BETAT	MACH	PARAMETRIC VALUES
○	.000	-6.270	2.000	ALPHAT
□	30.000	3.920		RUDDER
◇	60.000			RUDFLR
△	90.000			



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

(R5CT08)

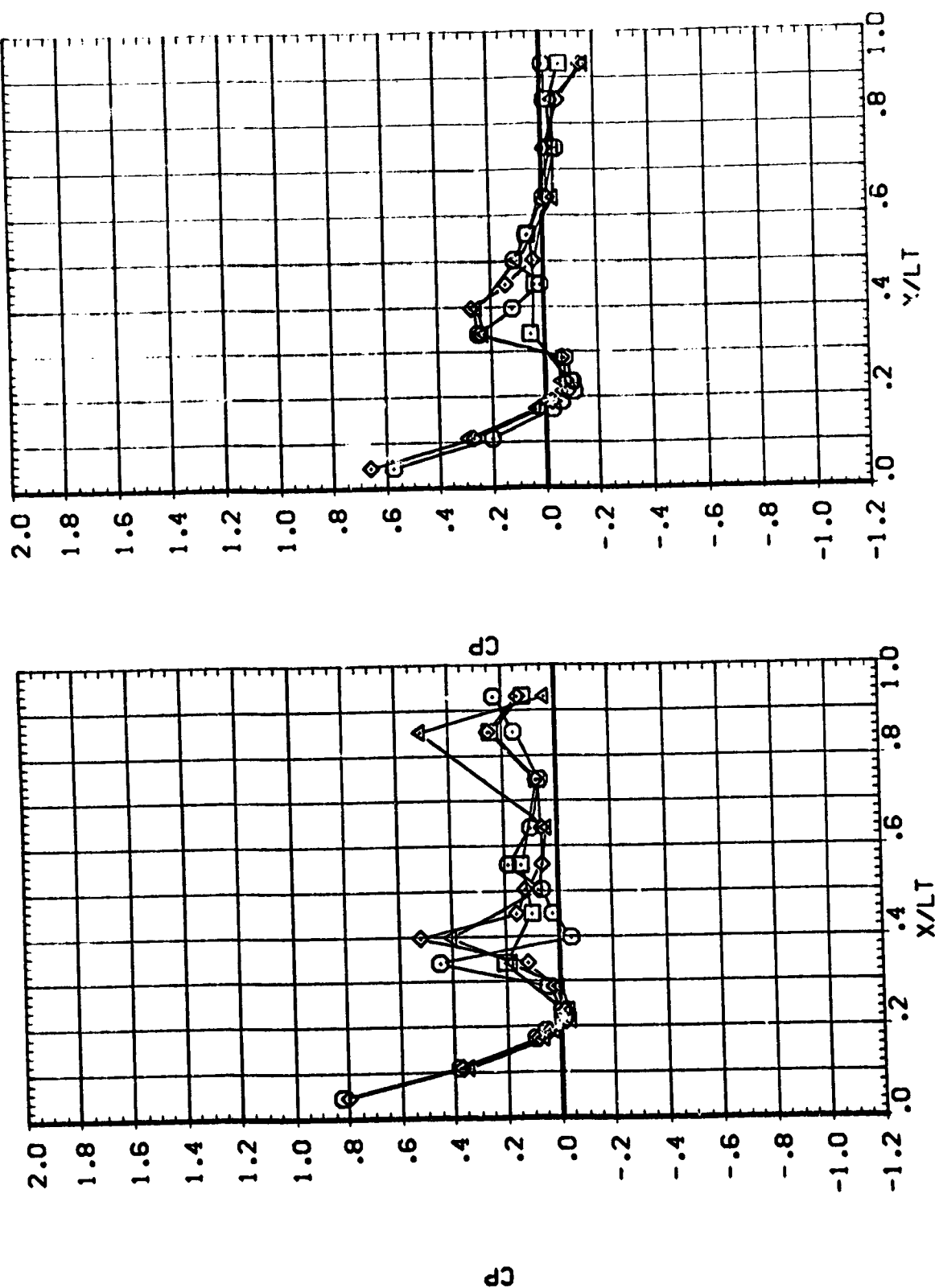
AMES 97-707 IAS 02A + S3 + T9 EXTERNAL TANK

SYMBOL
○
□
◇
△

P-H
120.000
135.000
150.000
165.000

BETAT MACH
-6.270 2.000
3.920

PARAMETRIC VALUES
ALPHA-T -4.000
R-ROSS .000
R-FLR .000
CROSSING .500
ELEVON .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBCT08)

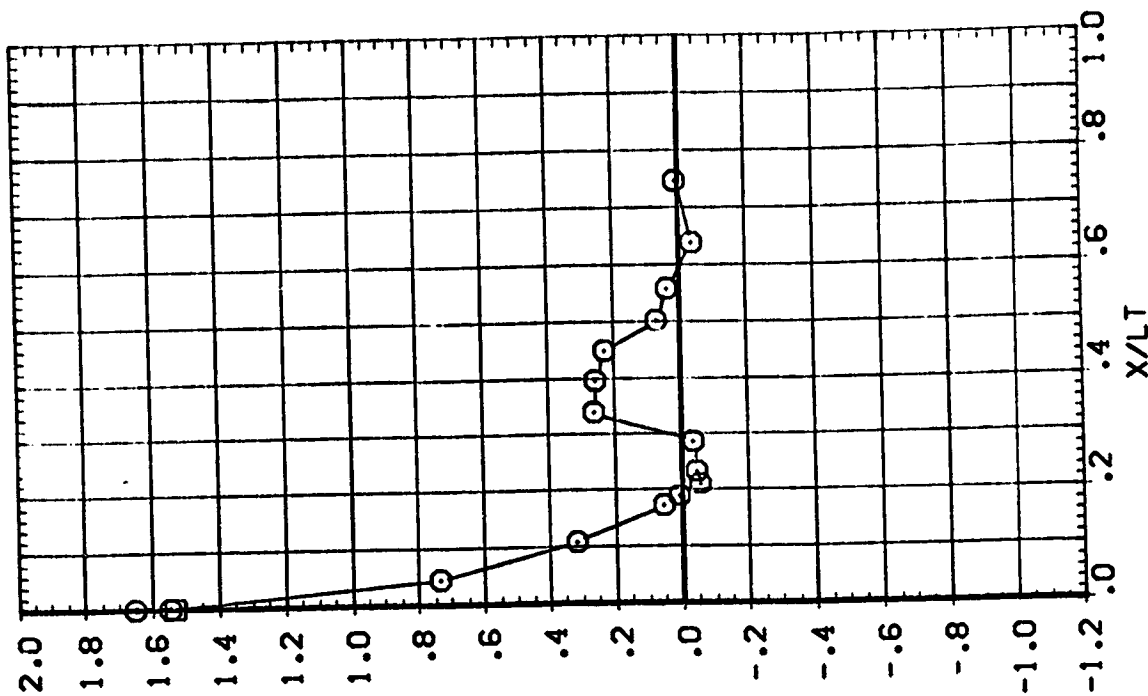
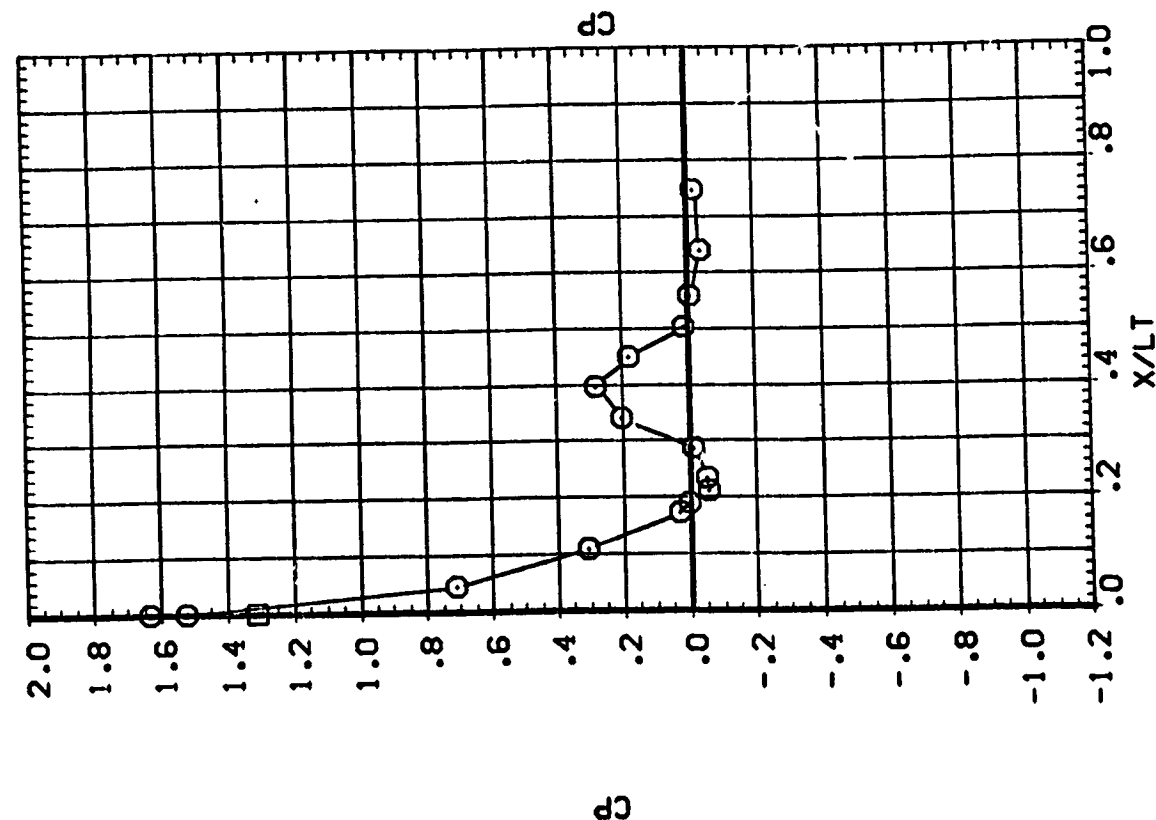
SYMBOL
○
□

PHI 180.000
270.000

BETAT -6.270
3.920

MACH 2.000

PARAMETRIC VALUES
ALPHA-T -4.000
RUDDER .000
RUDELR .000
ORBITAL .500
ELEVON .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

ALPHA-T
RUDER
RUDER

-4.000
.000
.000

ELEVON
ELEVON

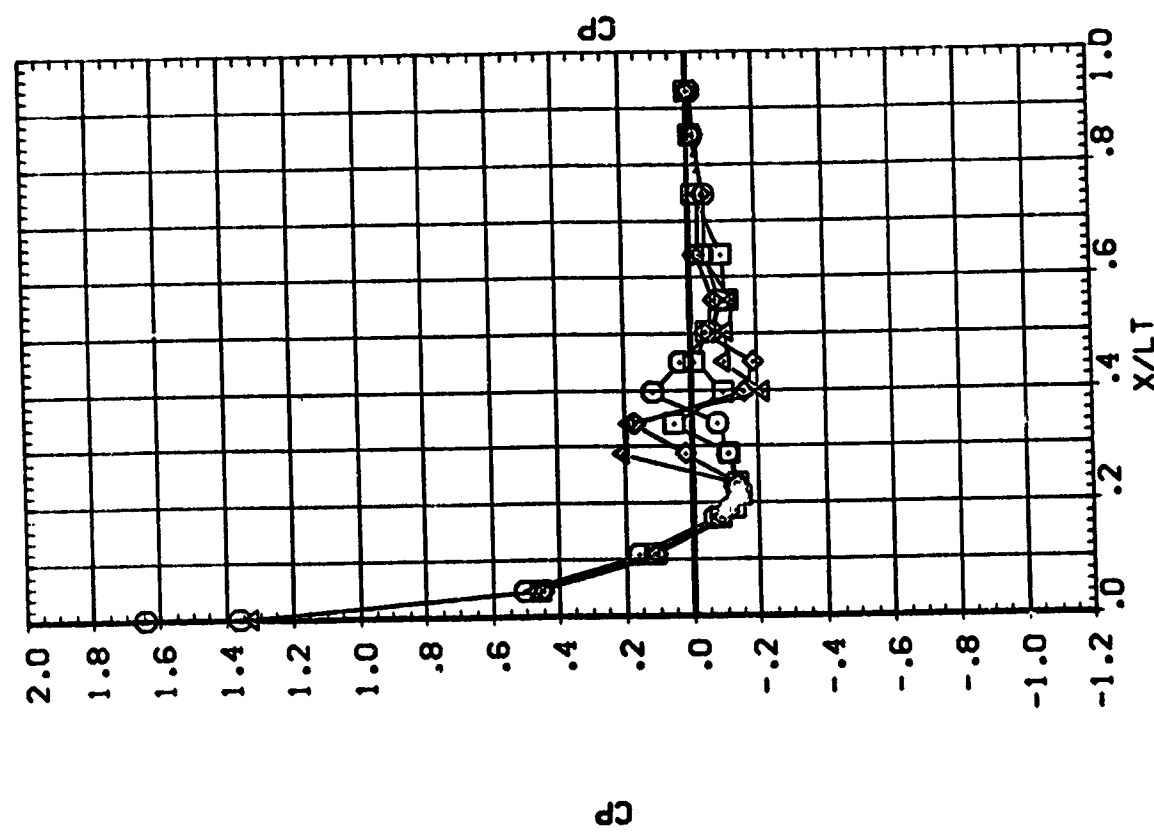
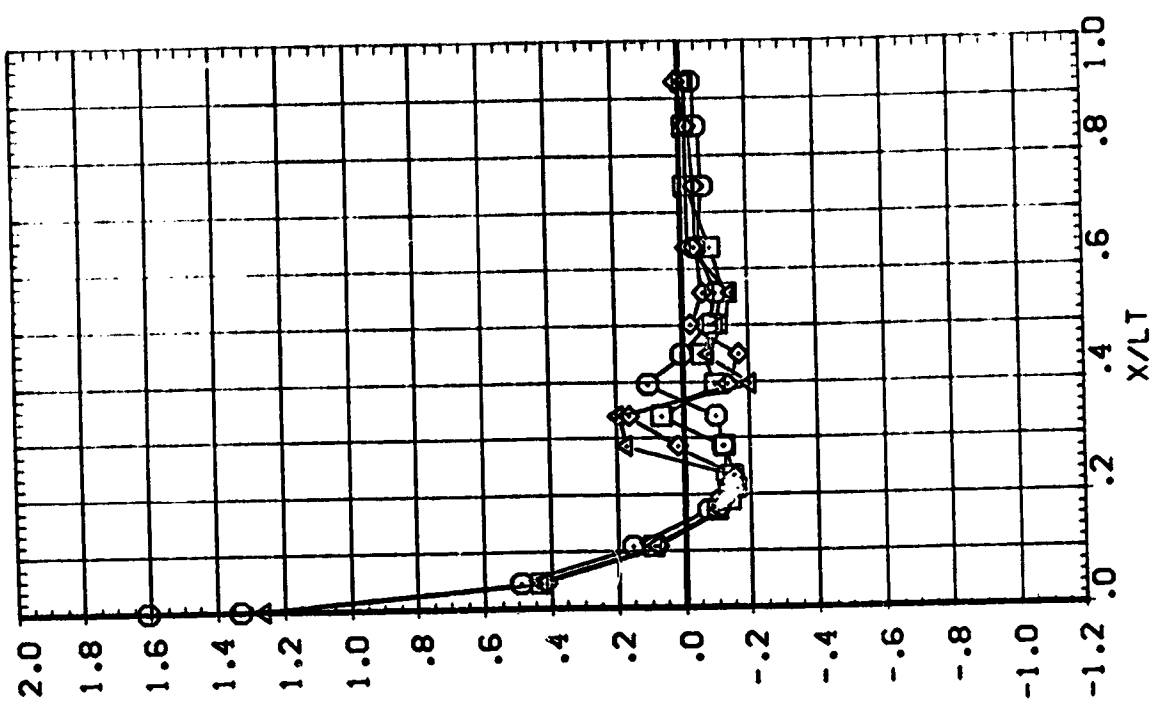
.000
.000

SYMBOL
O
□
◇
△

WEIGHT
.000
30.000
60.000
90.000

WEIGHT
5.960
8.010

WEIGHT
2.000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

III

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK (R80T08)

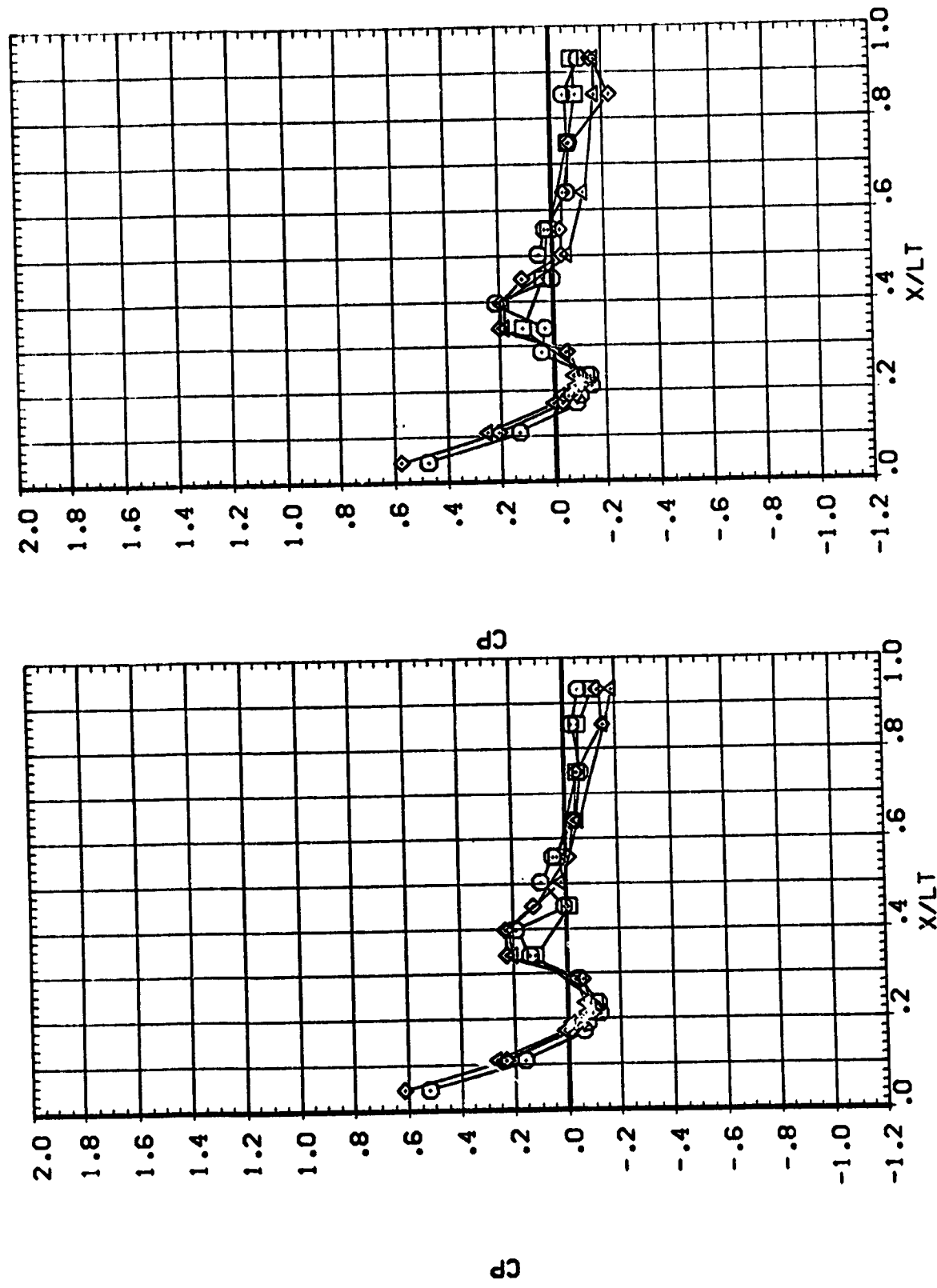
SYMBOL
 ○
 □
 ◇
 △

PHI
 120.000
 135.000
 150.000
 165.000

BETAT
 5.960
 8.010

MACH
 2.000

PARAMETRIC VALUES
 ALPHAAT -4.000
 RUDGER .000
 RUDFLR .000
 ORBINC .500
 ELEVEN .000



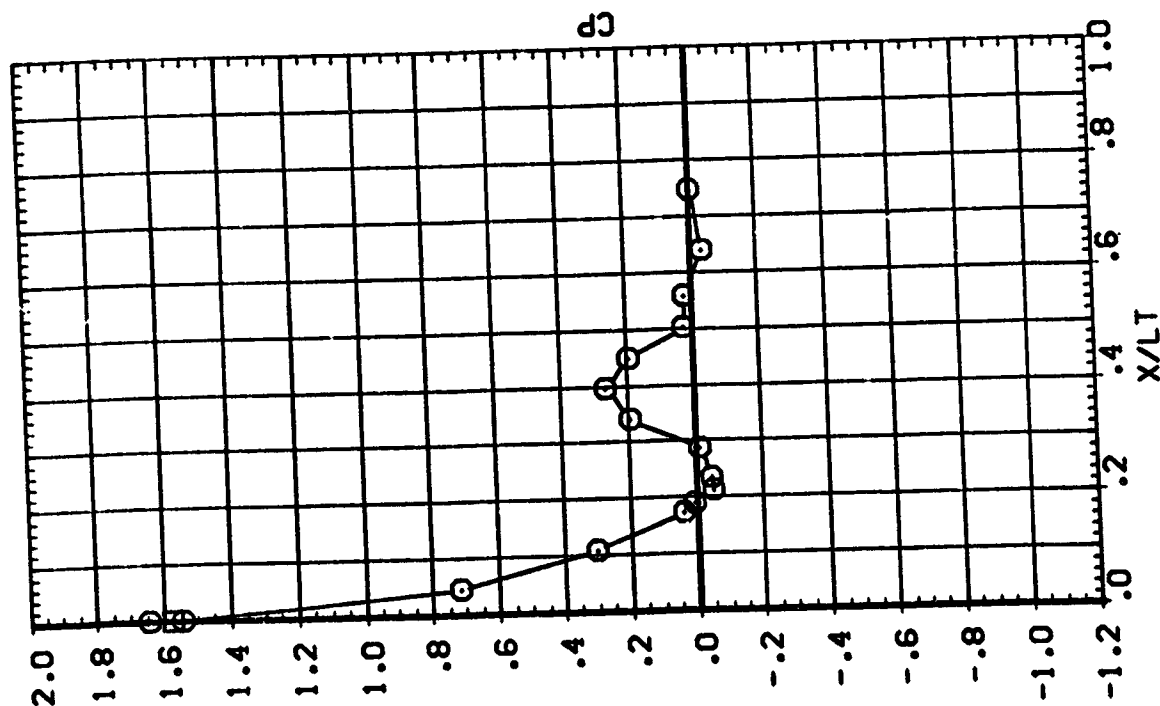
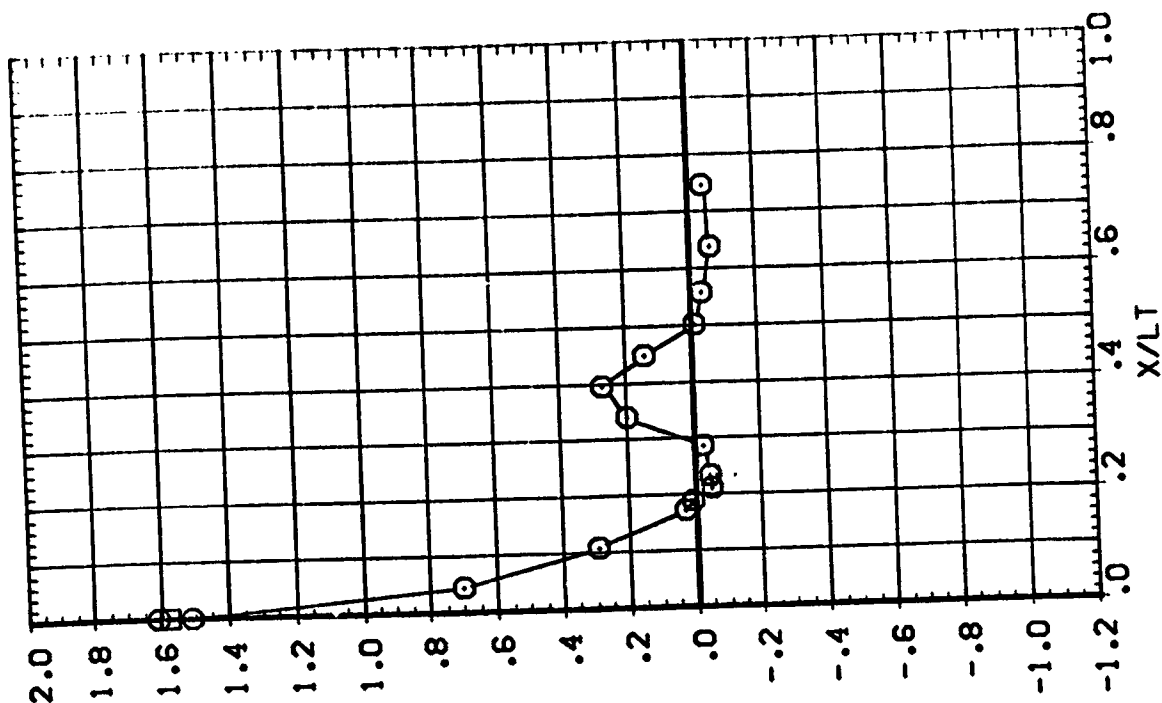
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

MANUAL INPUT

ALPHAT	CRBINC	500
RUDGER	ELEVEN	1000
RUDFLR		

PHI

BETAT	MACH
180.000	5.960
270.000	8.010



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

(R00T10)

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

SYMBOL
○ □ ◇ △

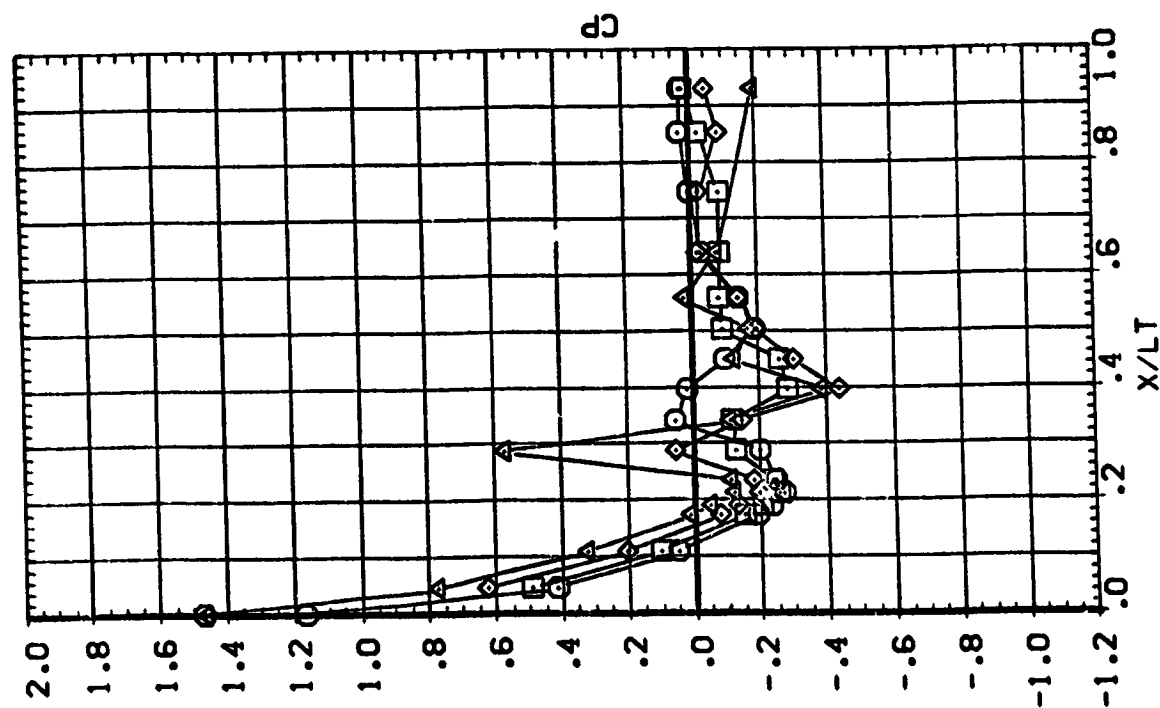
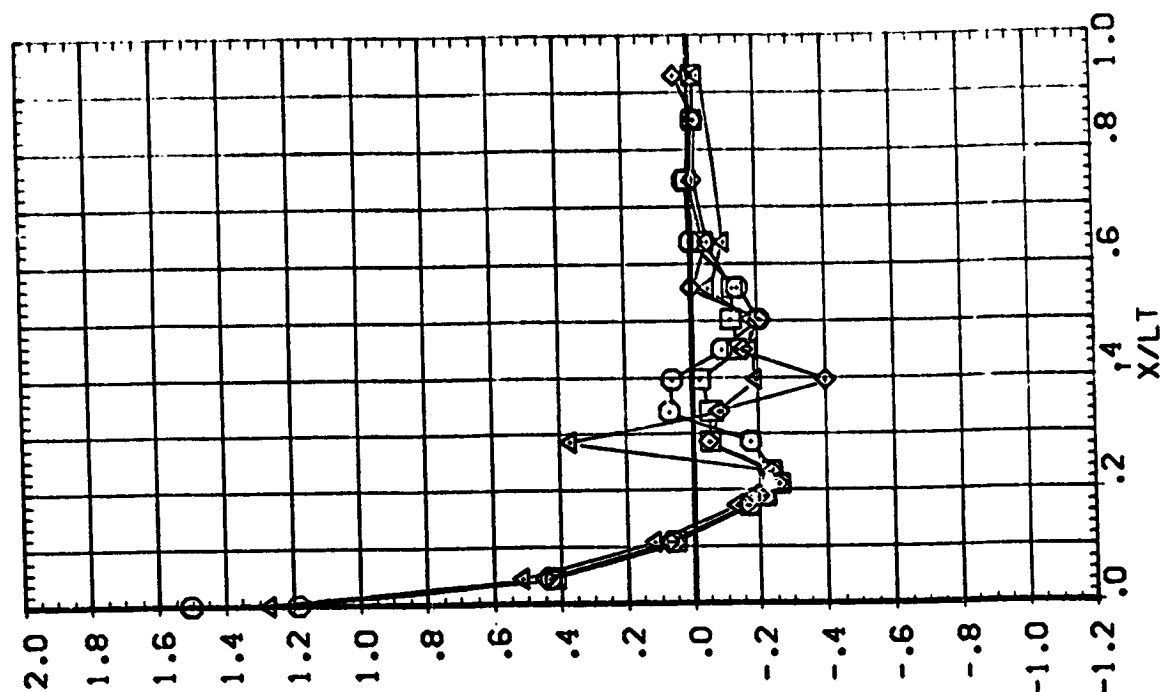
PHI .000
30.000
60.000
90.000

BETAT -6.210
3.650

MACH 1.555

PARAMETRIC VALUES
ALPHAT -8.000
RUDDER .000
RUOFLR .000

.000
CRBINC
ELEVON
.000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

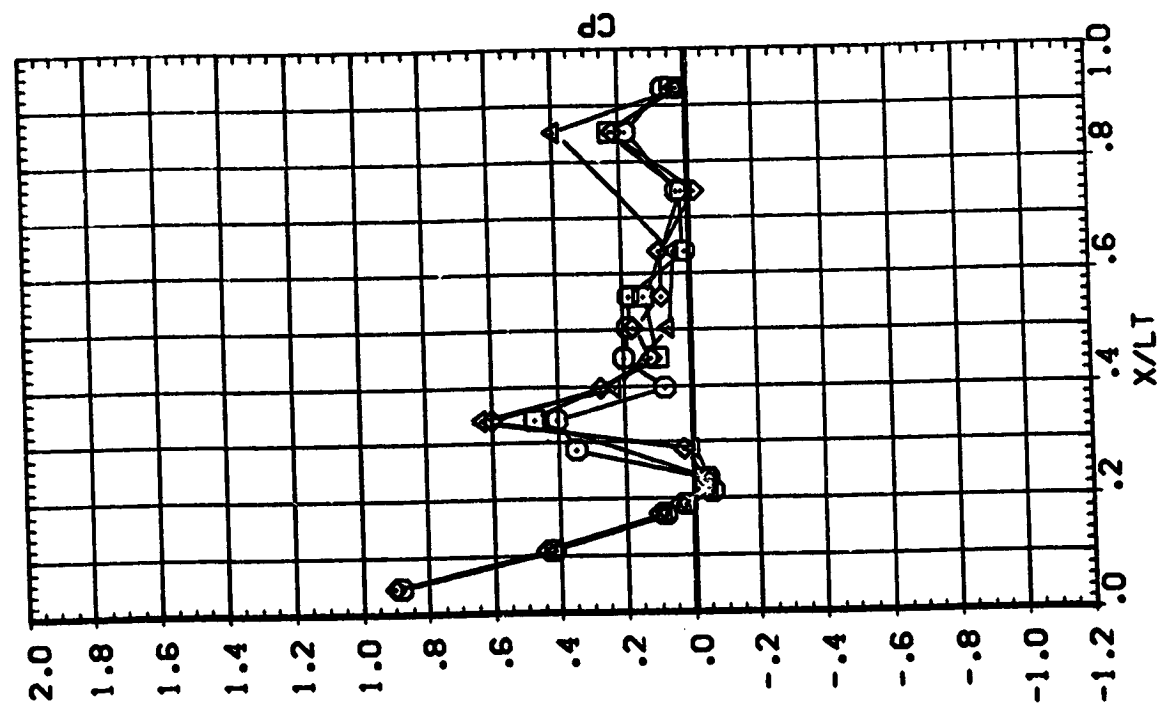
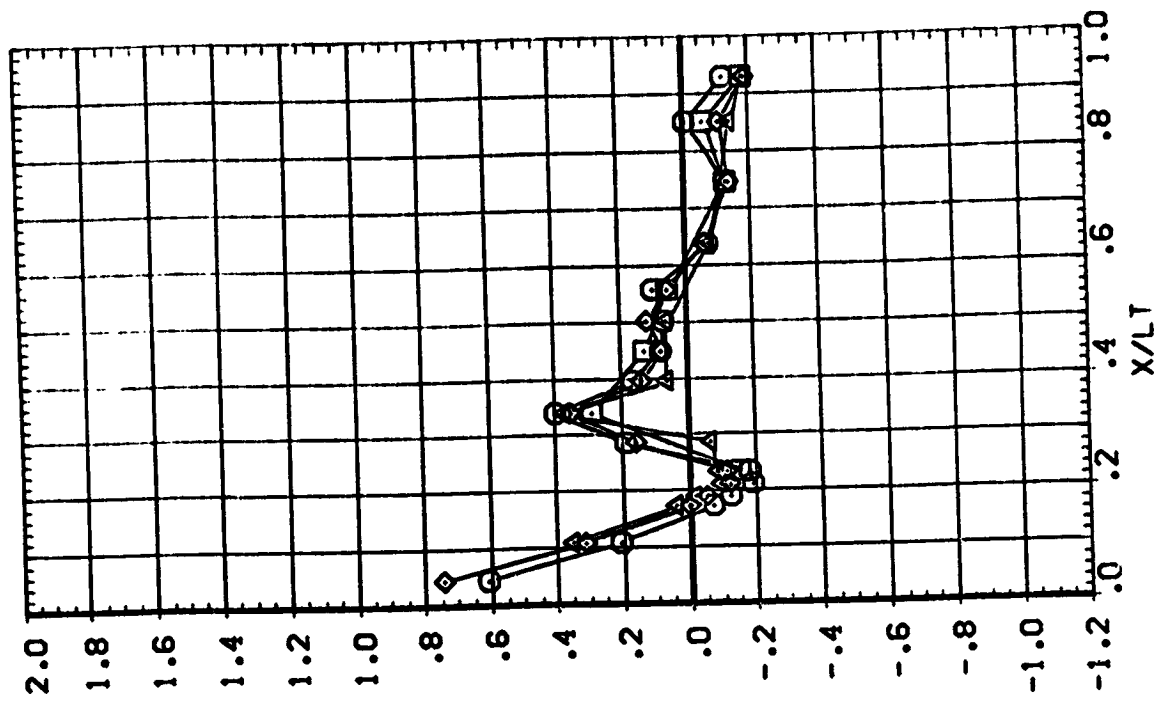
(RBTIO)

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

PARAMETRIC VALUES
 ALPHAT -8.000 ORBINC .500
 RUOGER .000 ELEVON .000
 RUOFLR .000

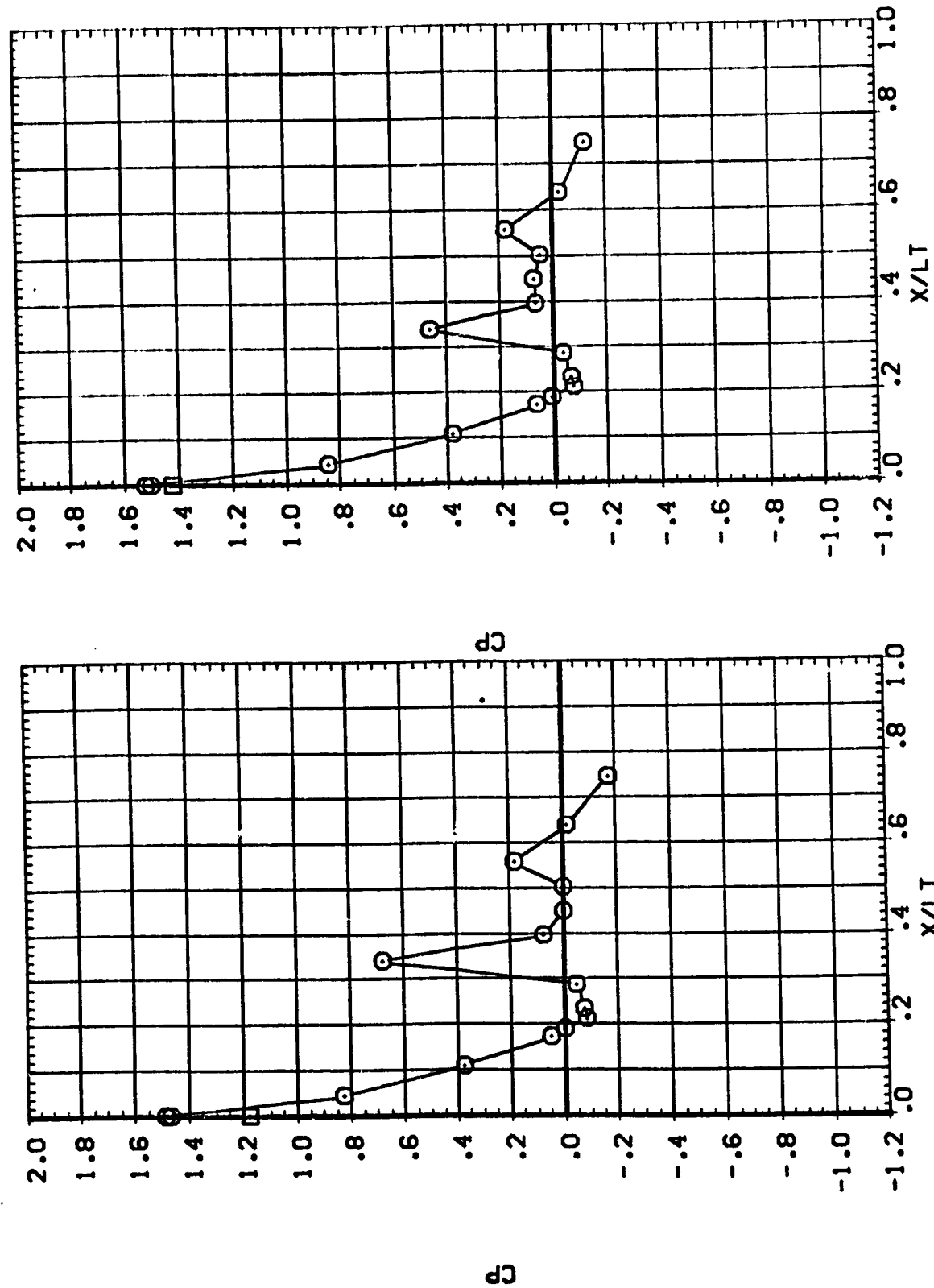
PHI 120.000 MACH 1.555
 BETAT -6.210
 135.000 3.650
 150.000
 165.000

SYMBOL
 ○ □ ◇ △



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES
○	180.000	-6.210	1.555	-8.000
□	270.000	3.650	1.555	.000
				ELEVON
				.000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

[RBT010]

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

SYMBOL
○ □ ◇ △

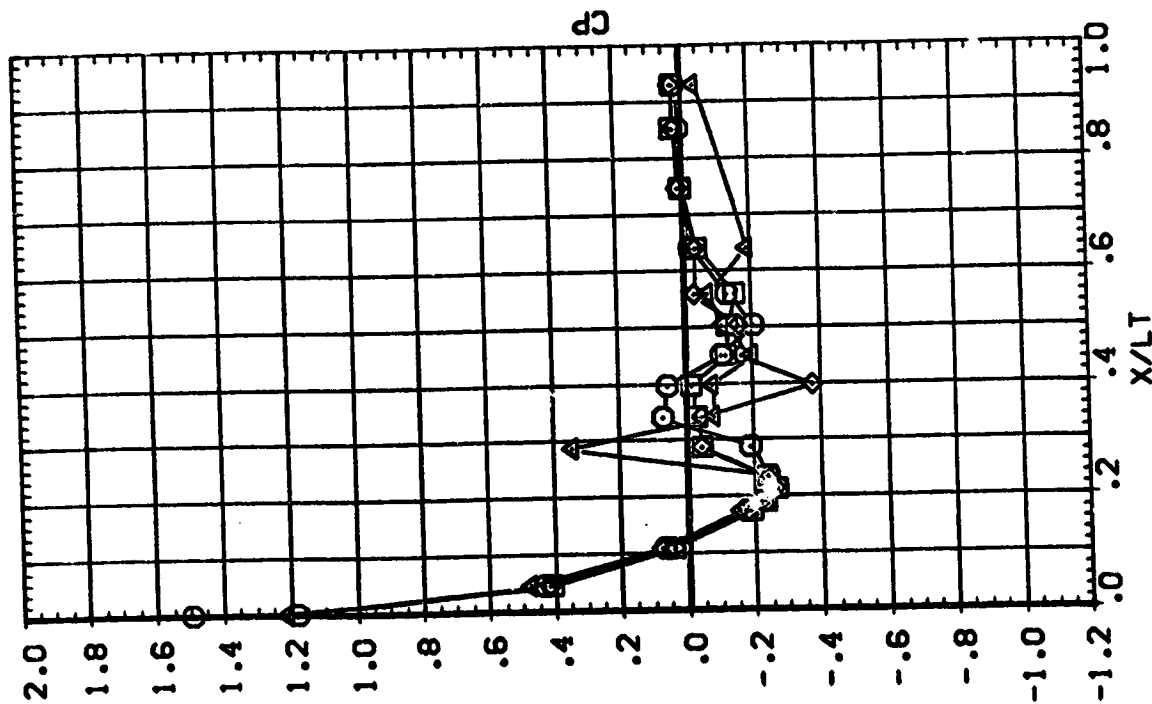
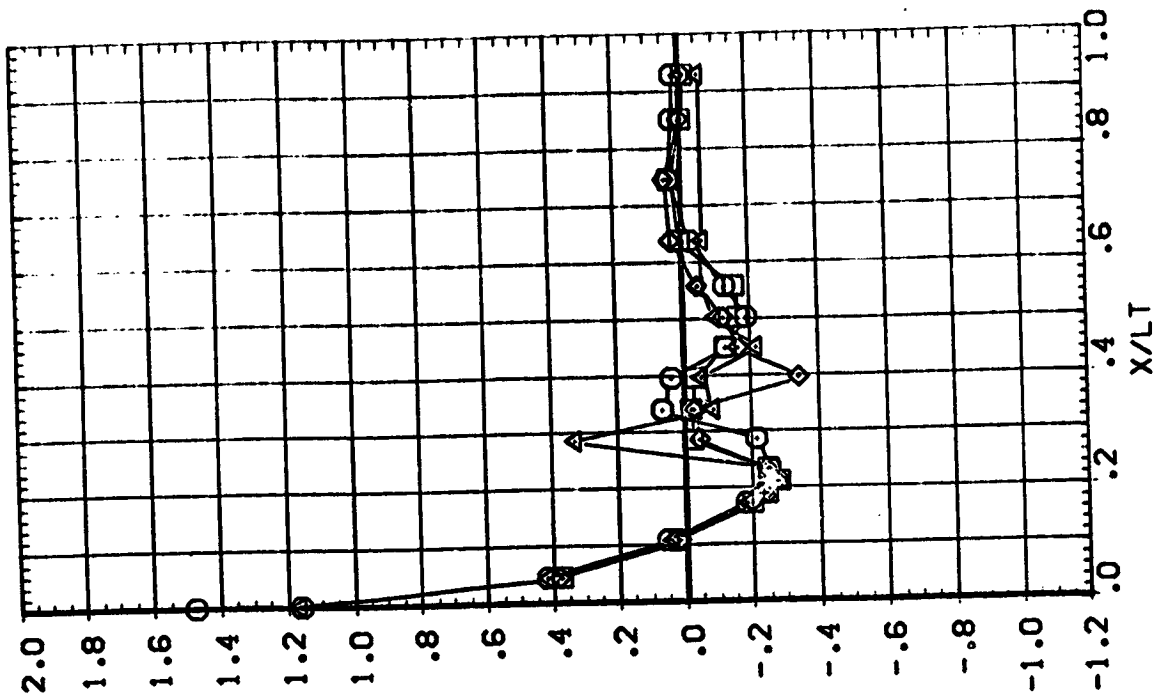
PHI
.000
30.000
60.000
90.000

BETAT
5.710
7.770

MACH
1.555

PARAMETRIC VALUES
ALPHAT
-8.000
RUDDER
.000
RUDFLR
.000

.500
.000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK (R00T10)

SYMBOL
 ○ □ ◇ △

PHI 120.000
 135.000
 150.000
 165.000

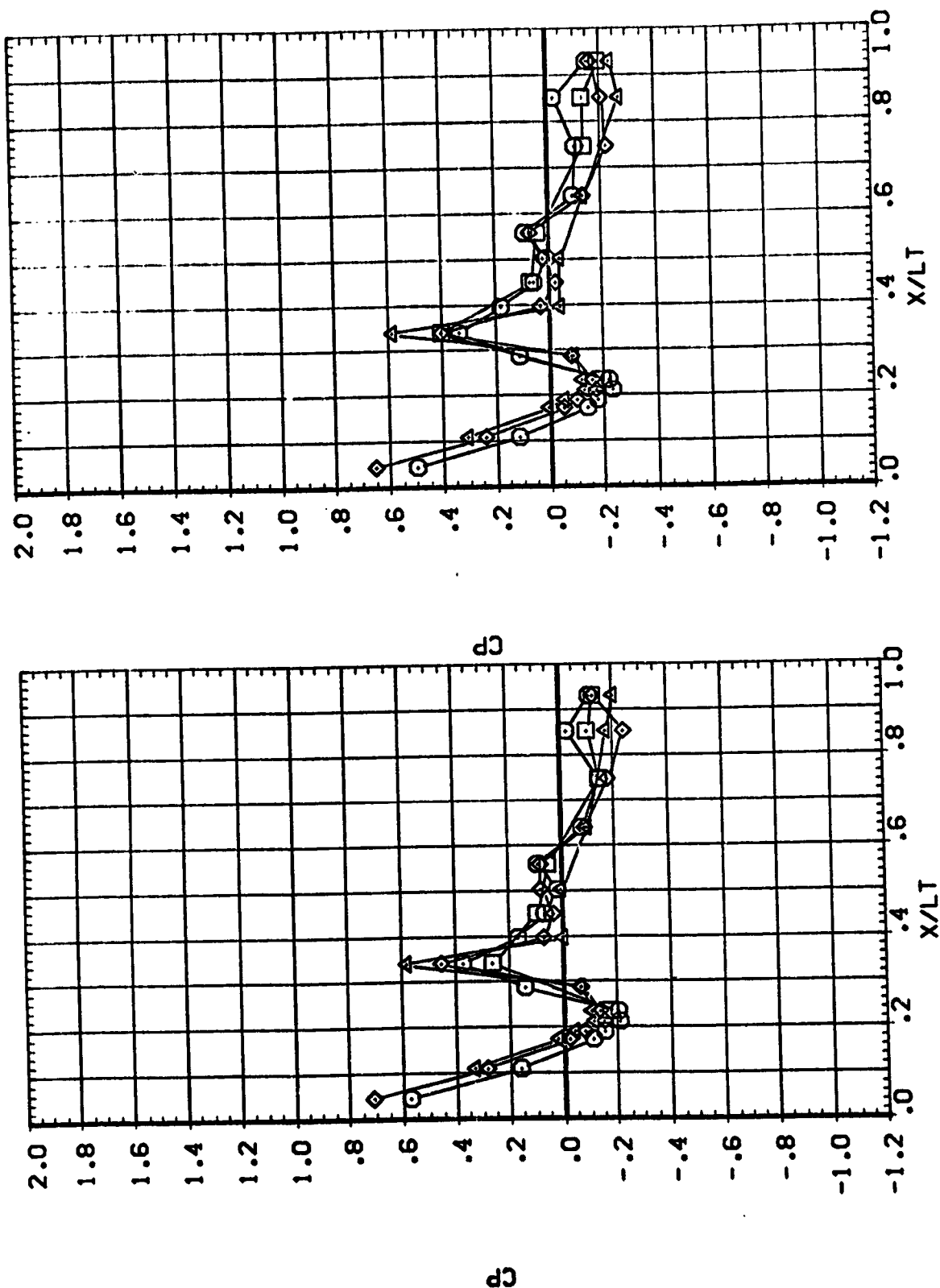
BETAT 5.710
 7.770

MACH 1.555

PARAMETRIC VALUES

ALPHAT -8.000
 RUDDER .000
 RUOFLR .000

ORBITALC .500
 ELEVON .000



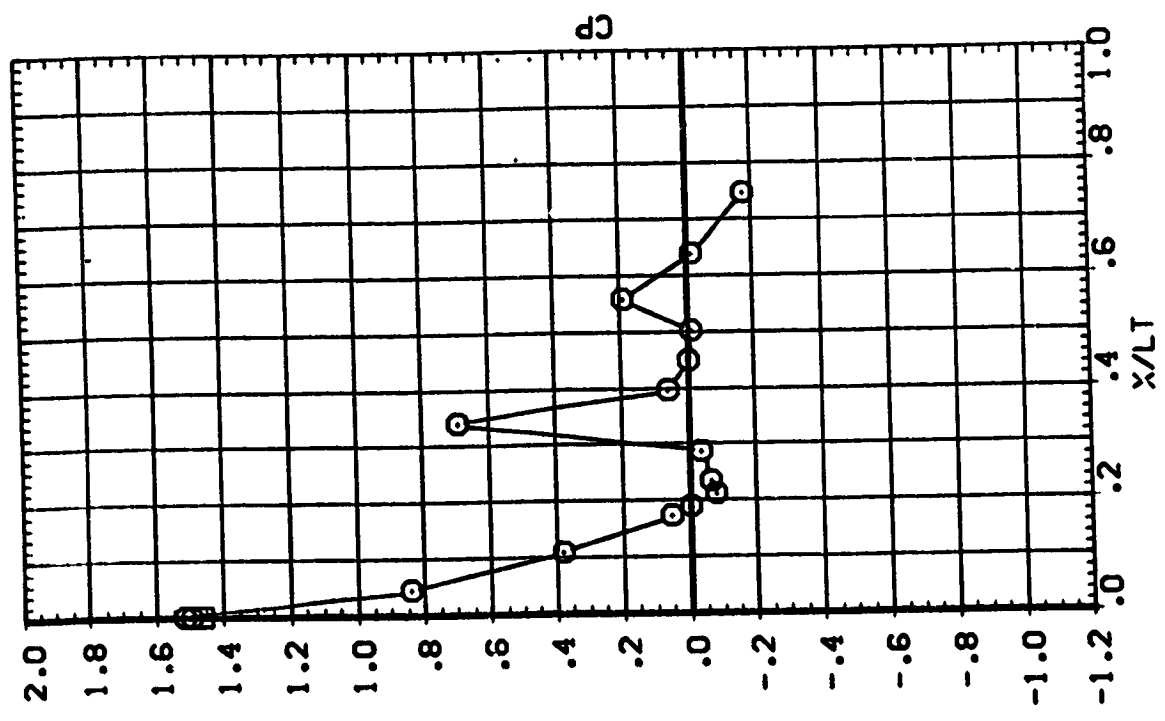
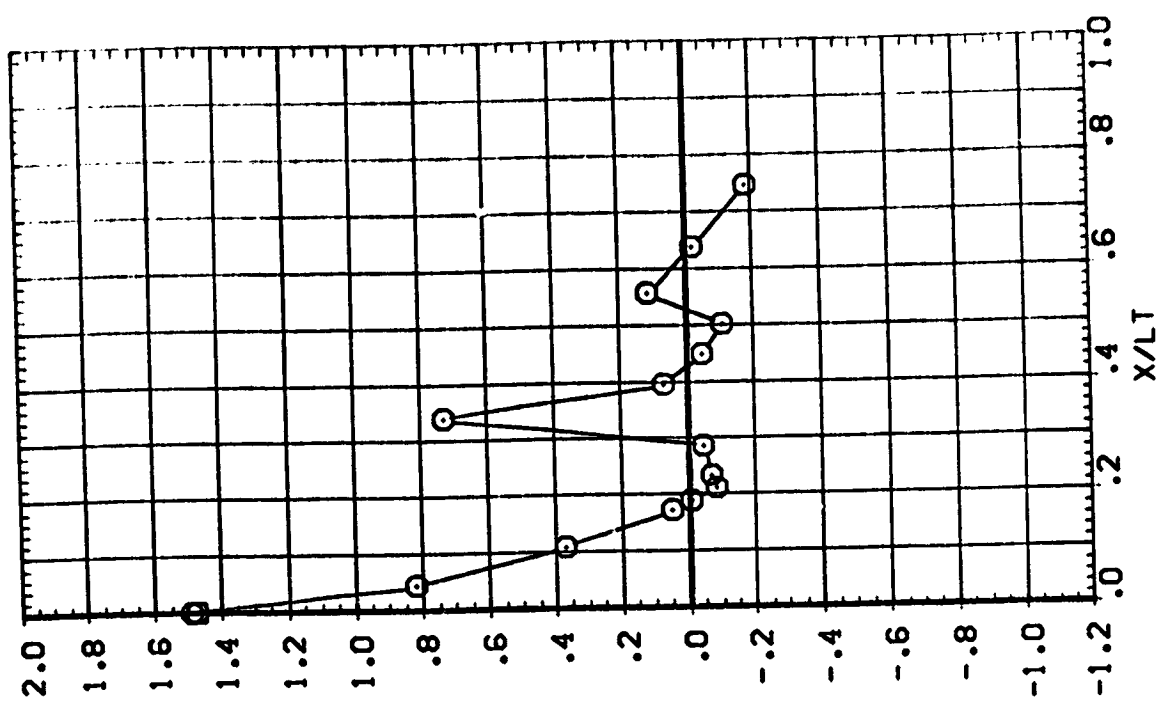
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

(RB0110)

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

PARAMETRIC VALUES
ALPHAT -8.000 099.1C
RUDDER .000 ELEVON
RUOFLR .000

SYMBOL PHI BETAT MACH
180.000 5.710 1.555
270.000 7.770



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK (RB0110)

SYMBOL

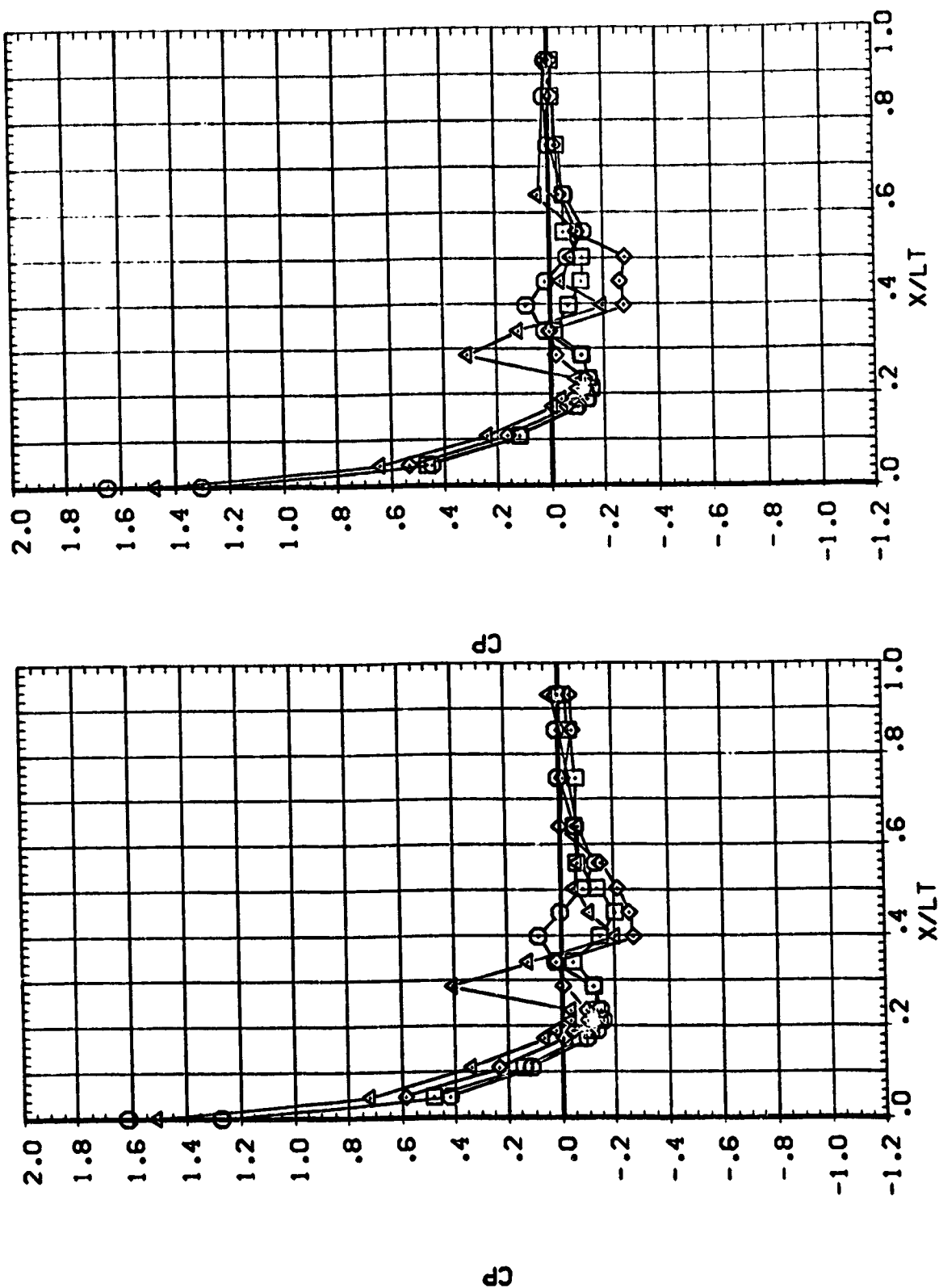
PHI
0.000
30.000
60.000
90.000

BETAT
-4.280
-.170

MACH
2.000

PARAMETRIC VALUES
ALPHAT
RUDER
RUDFLR

-8.000
.000
.000
CSG1NC
ELEVON
.500
.000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

(R00T10)

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK

SYMBOL
○
□
◇
△

PHI
120.000
135.000
150.000
165.000

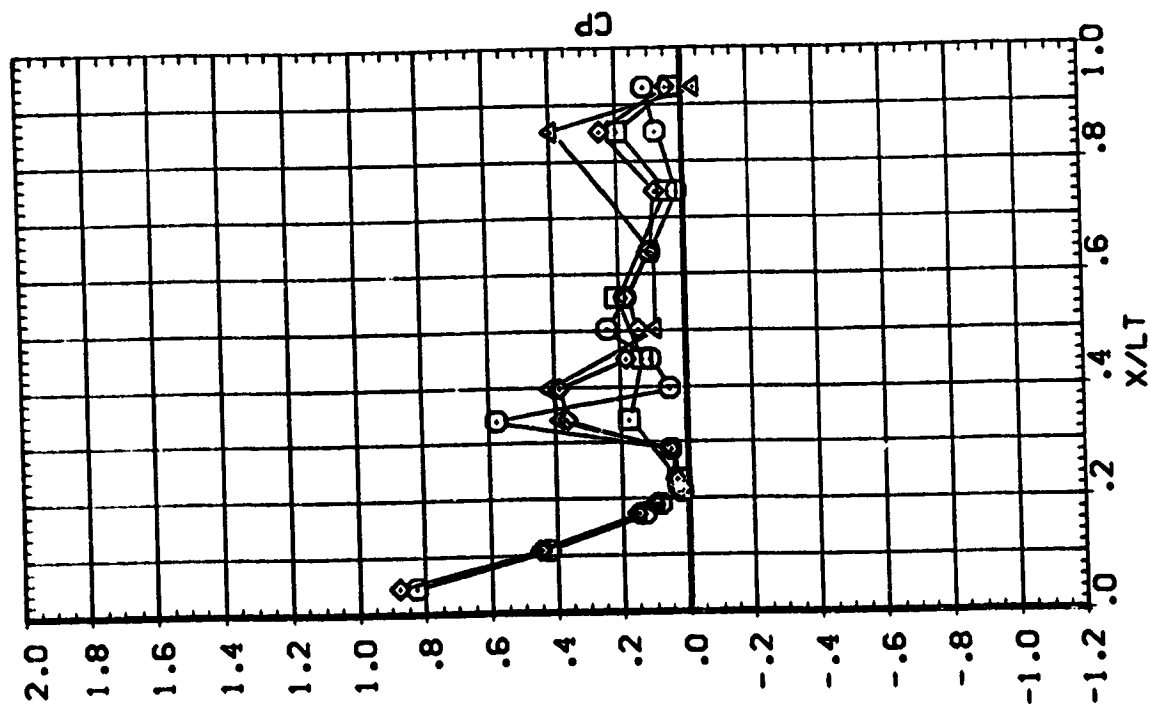
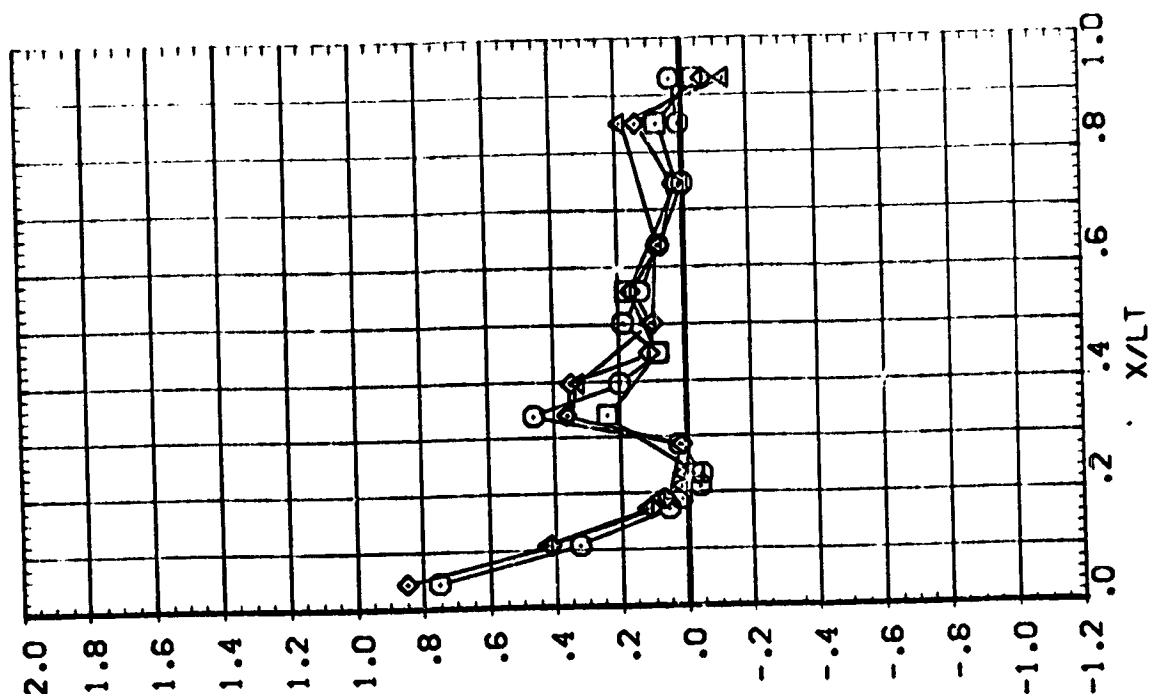
BETAT
-4.280
-1.170

MACH
2.000

PARAMETRIC VALUES
ALPHAT
RJCOER
RJDFLR

.500
.000

ORBITAL
ELEVON



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

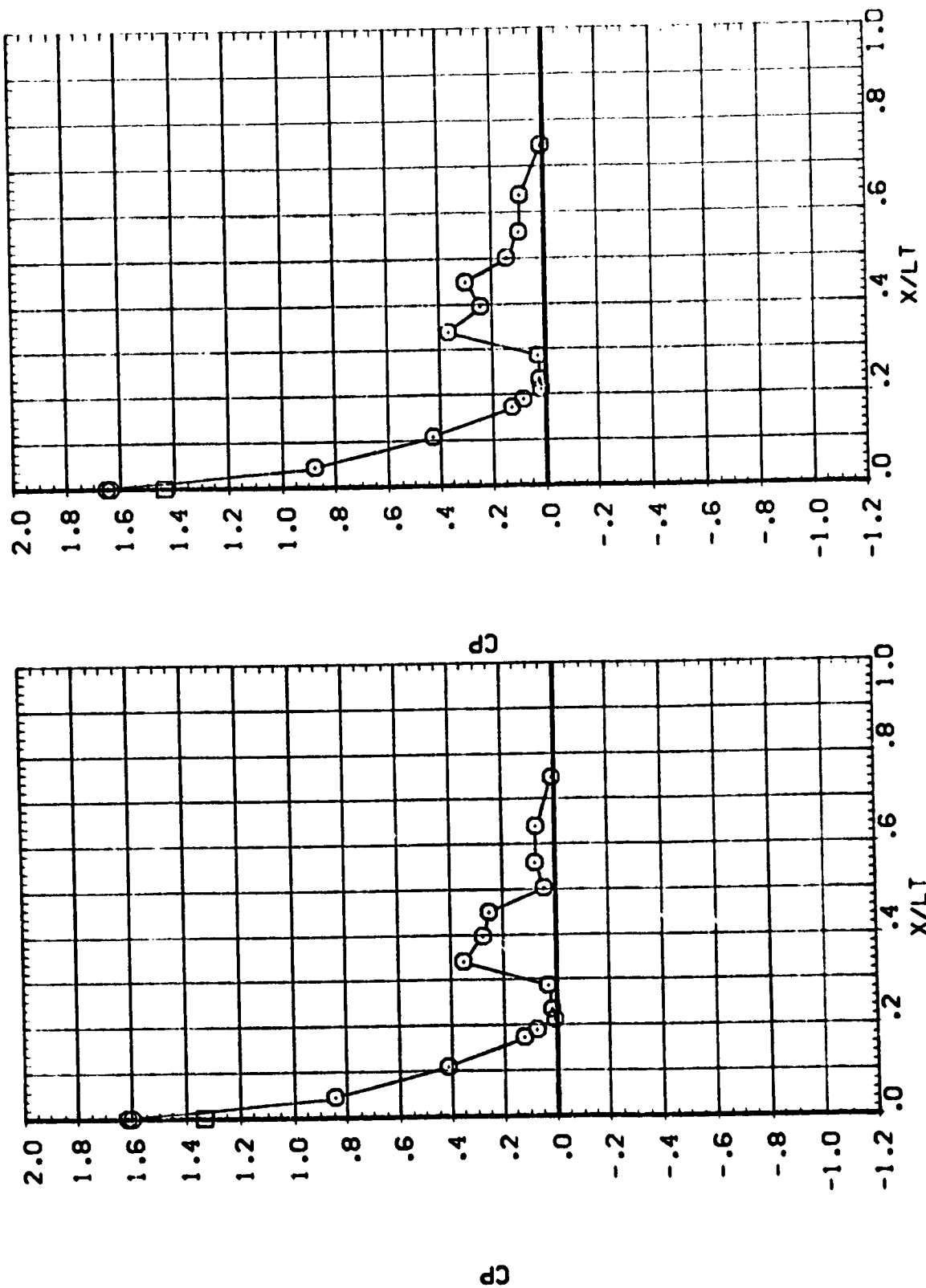
III

AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK (R80710)

SYMBOL
 ○ □

PHI 180.000 270.000
 BETAT -4.280 -1.170
 WACH 2.300

PARAMETRIC VALUES
 ALPHAAT -8.000
 RUDDER .000
 RUDFLR .000
 CRBINC .500
 ELEVEN .000

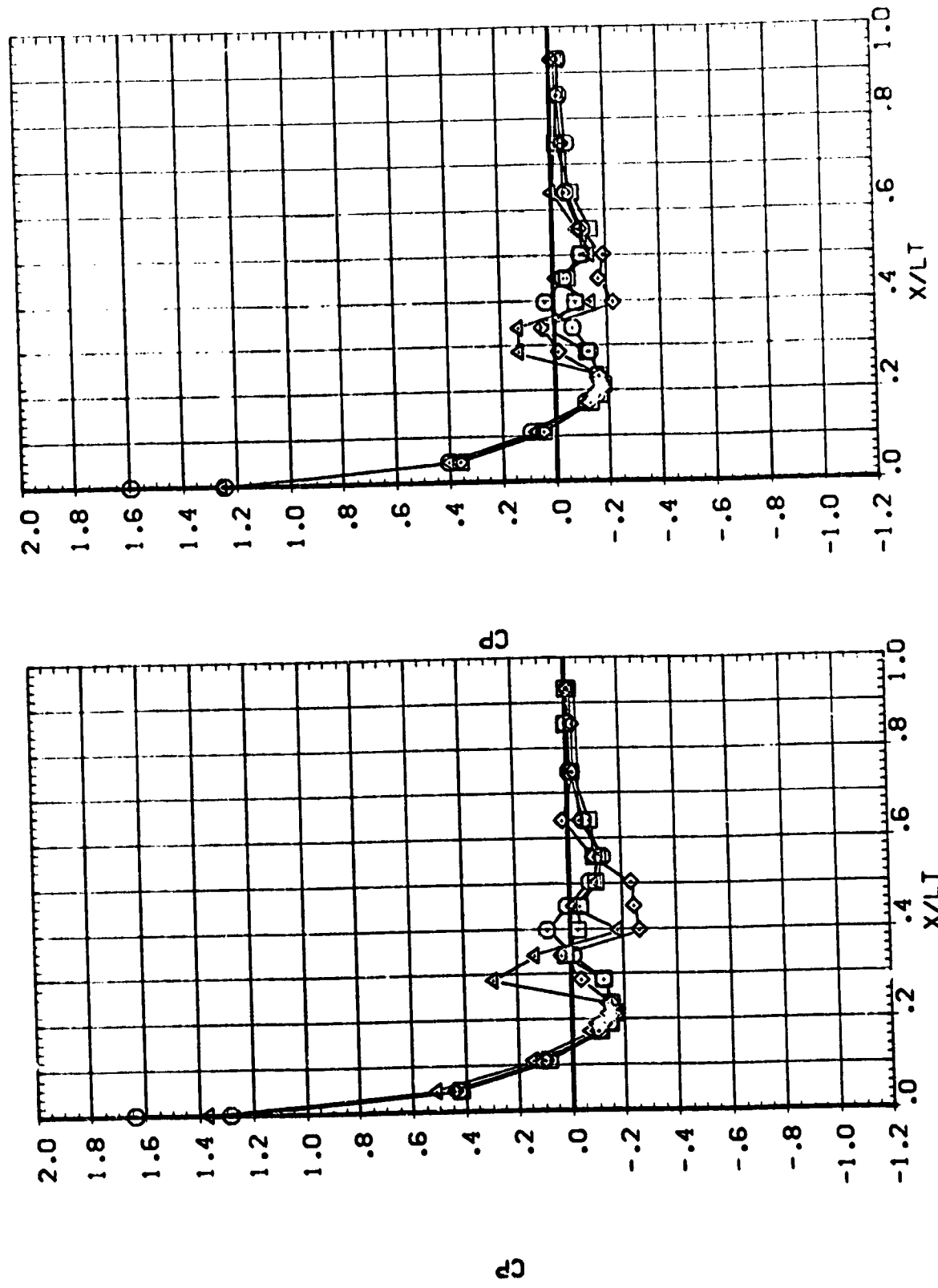


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

PARAMETRIC VALUES
ALPHA -8.000 DBINC .500
RUDDER .000 ELEVEN .000
RUDF_P .000

PHI .000 MACH 2.000
30.000 8.000
60.000
90.000

SYMBOL
O
◇
△



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 97-707 1A9 02A + 53 + 19 EXTERNAL TANK

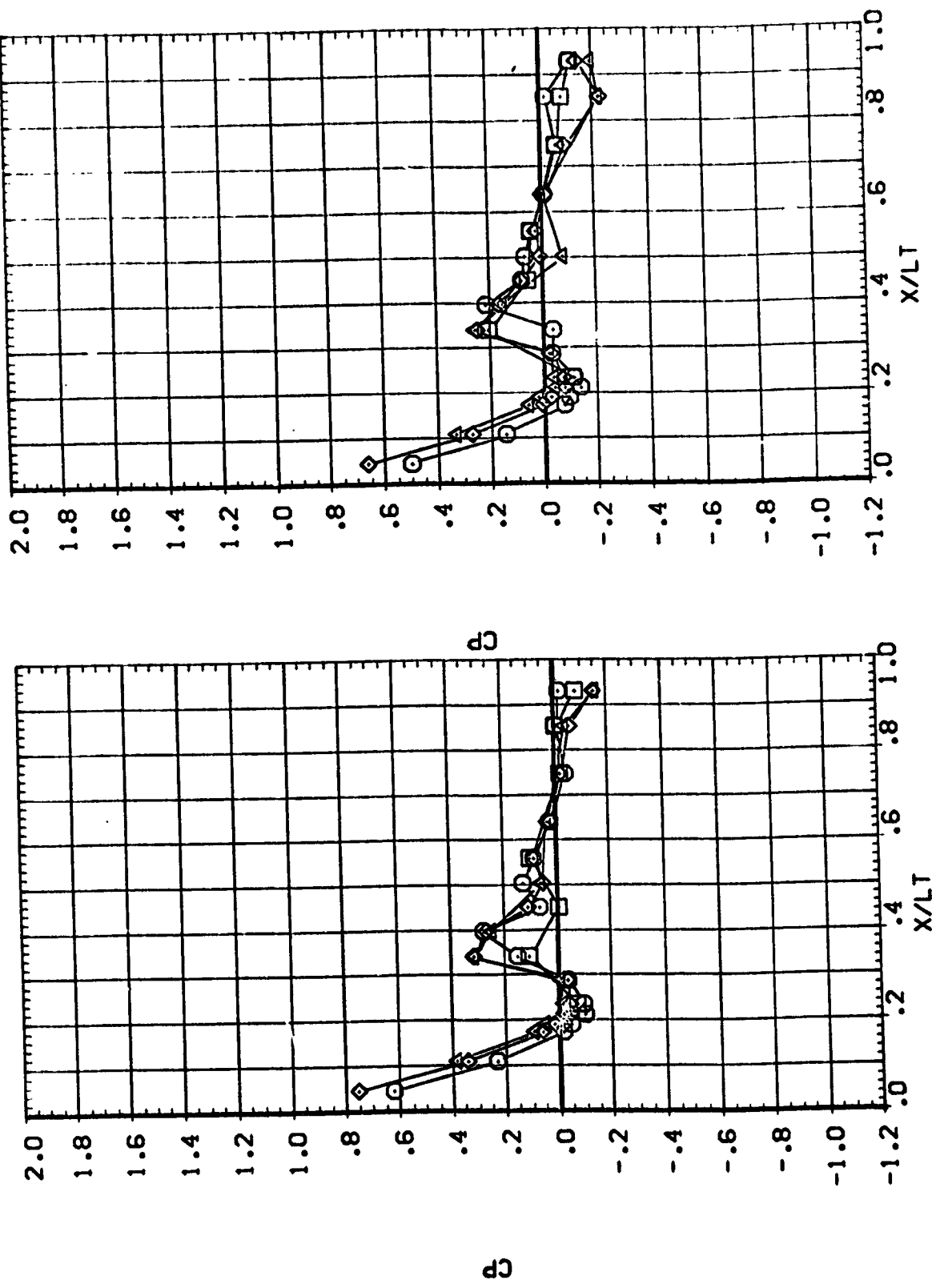
SYMBOL
 ○ □ ◇ △

PHI
 120.000
 135.000
 150.000
 165.000

BETAT
 3.940
 8.050

MACH
 2.000

PARAMETRIC VALUES
 ALPHAT
 RUDGER
 RUDFLR
 -8.000
 .000
 .000
 098.1NC
 ELEVON
 .500
 .000

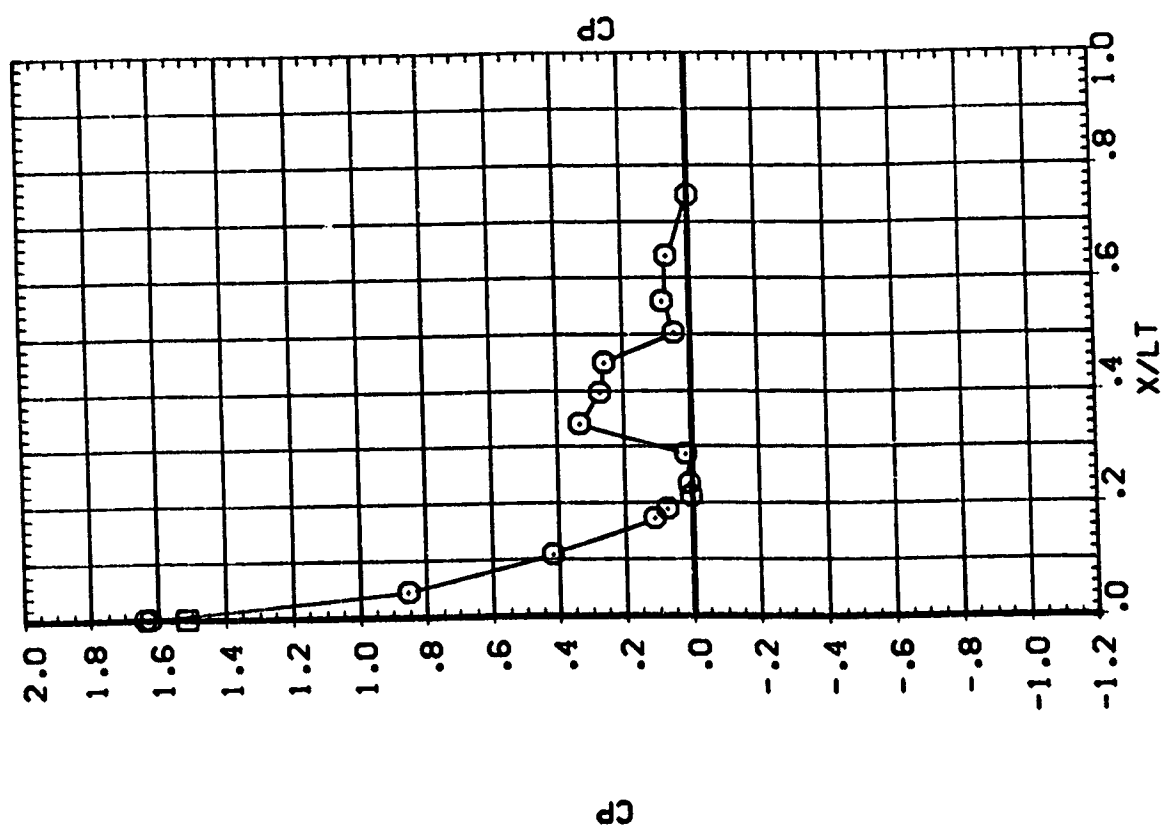
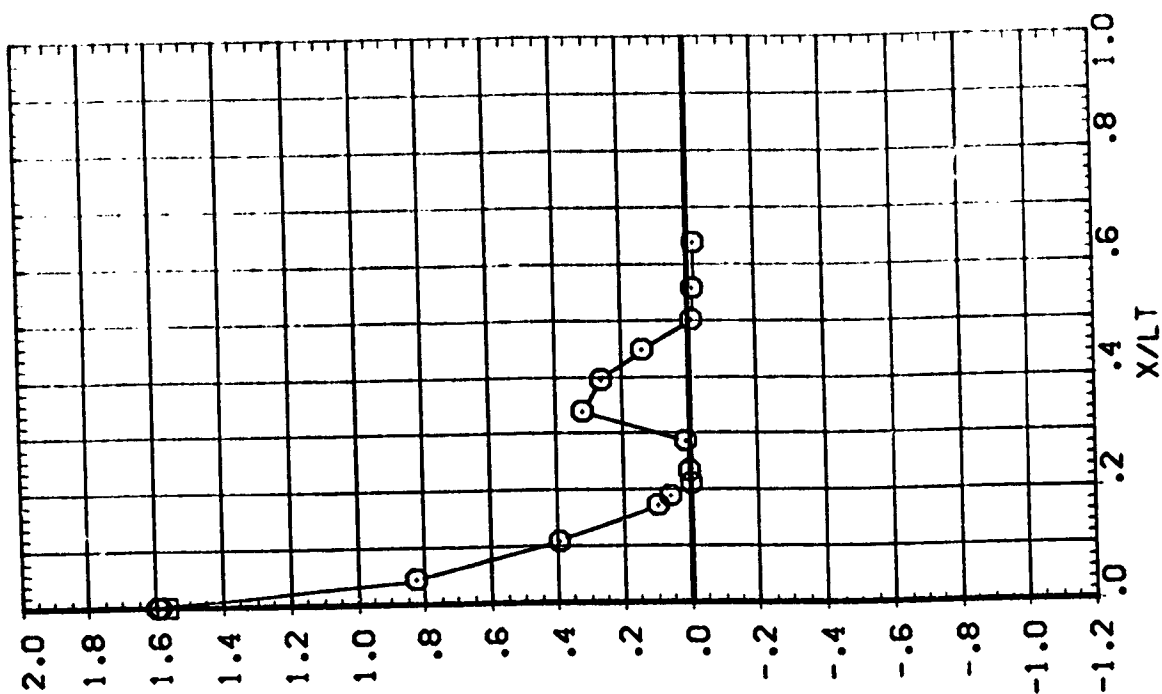


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

ALPHAT
RUDDER
RUDEFLR

PHI	BETAT	MACH
180.000	3.940	2.000
270.000	9.050	

SYMBOL 



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES.

(RBUSU1)

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

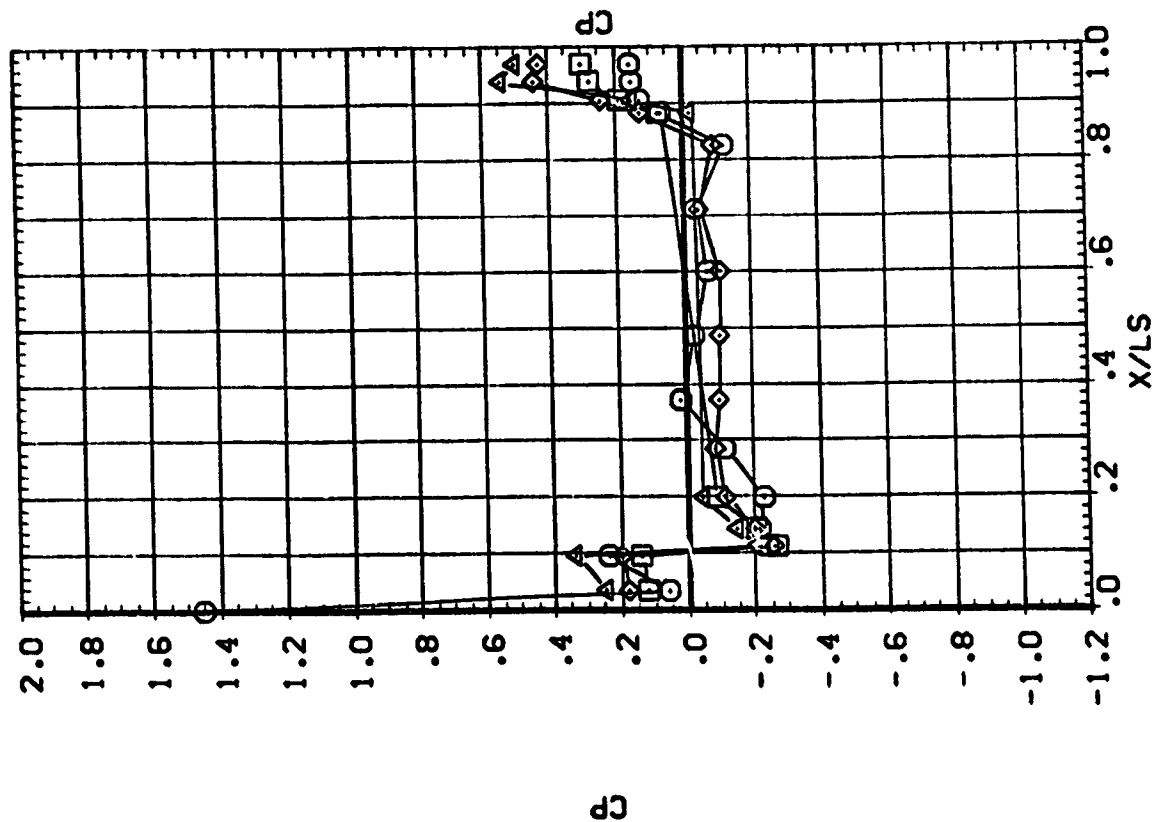
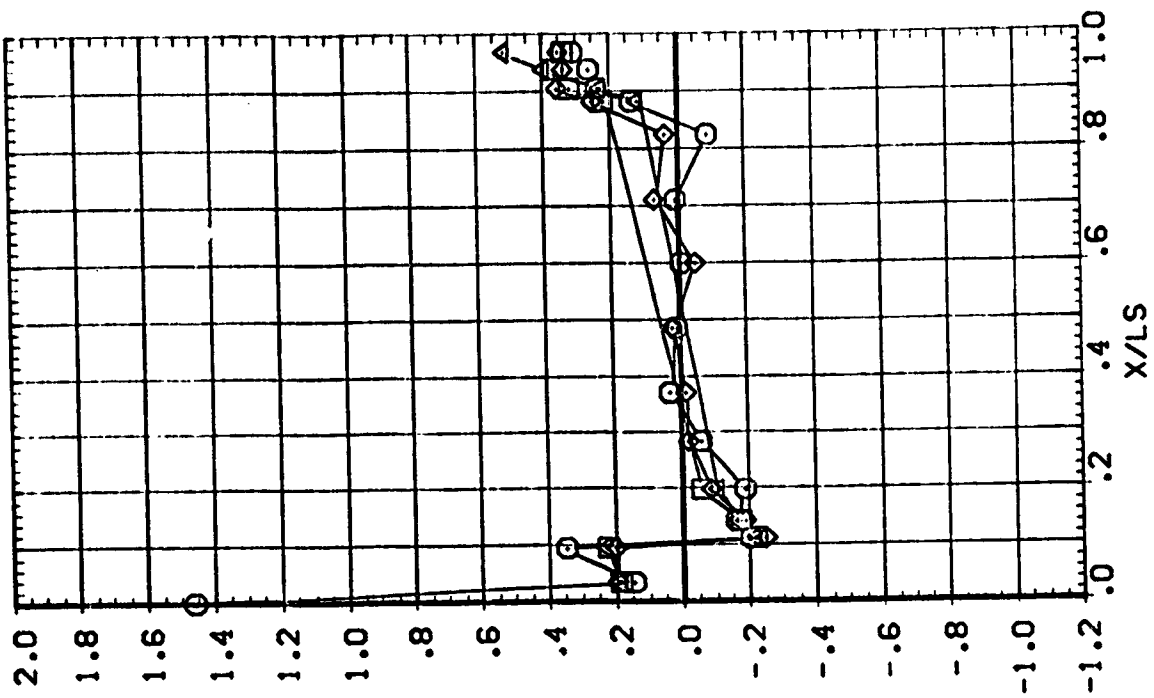
SYMBOL
○
□
◇
△

PHI .000
45.000
90.000
135.000

ALPHAT -4.250
-.120

MACH 1.555

PARAMETRIC VALUES
BETAT .000
RUDDER .000
RCSLR .000
ORGINC .500
ELEVON .000



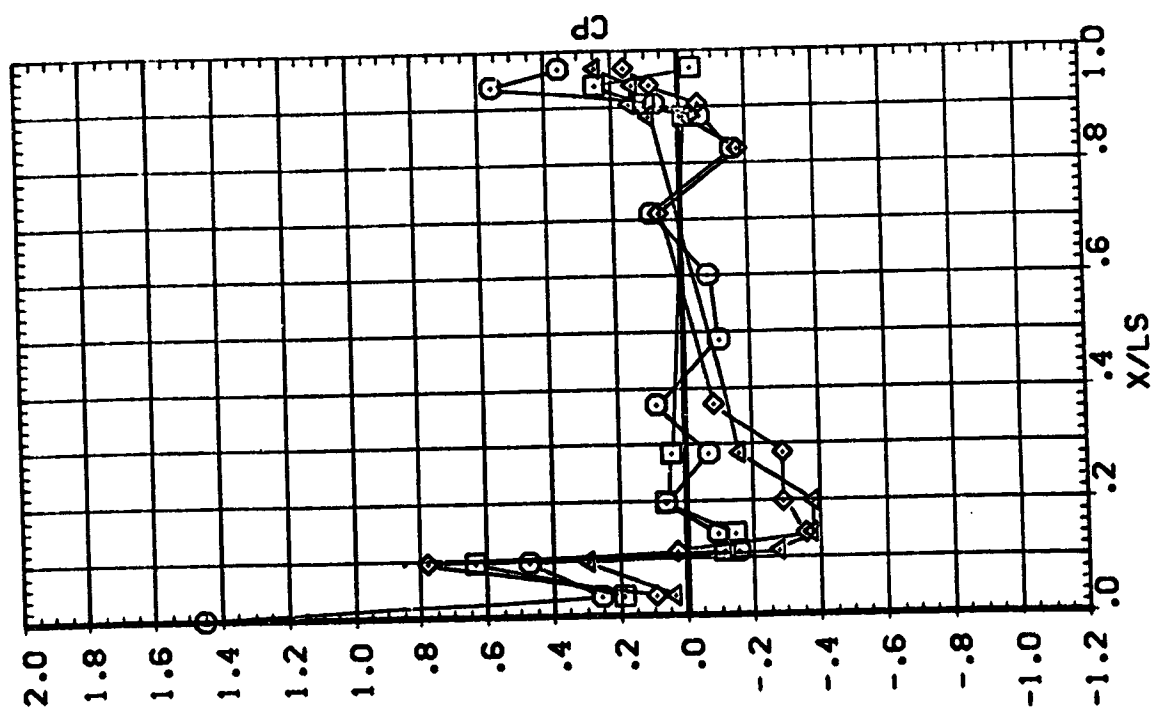
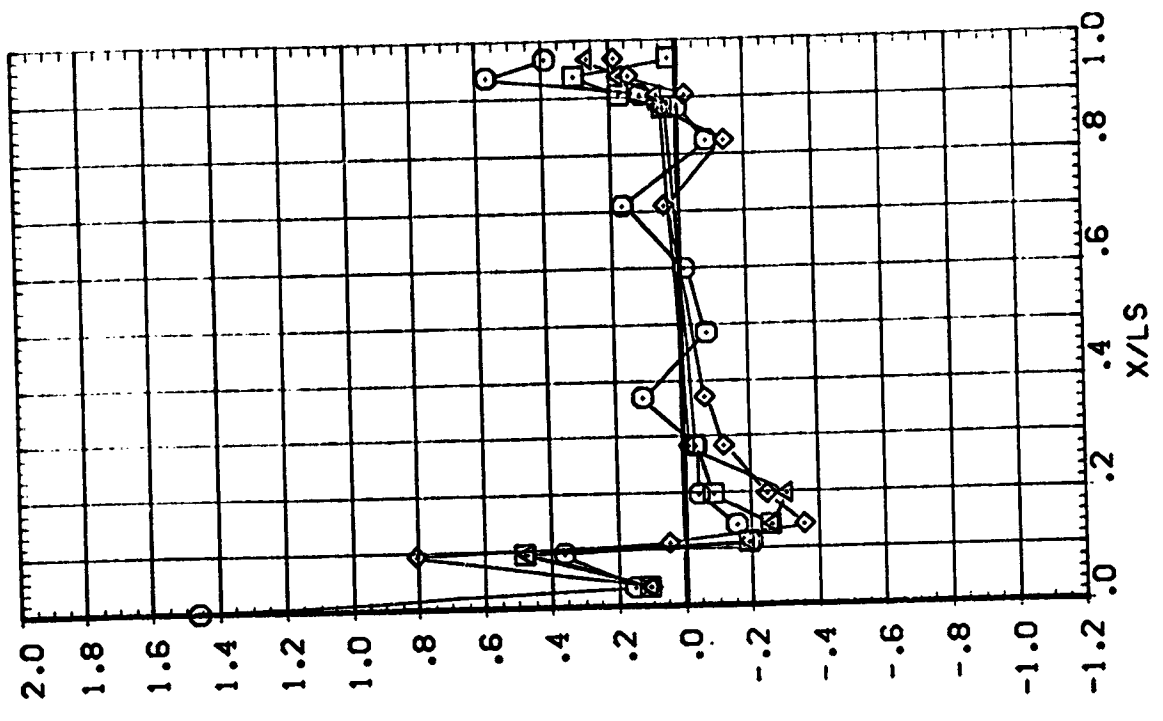
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

SYMBOL
○
□
◇
△

PHI 180.000
225.000
270.000
315.000

ALPHAT MACH
-4.250 1.555
-1.120

PARAMETRIC VALUES
BETAT .000 ORBINC .500
RJCDER .000 ELEVON .000
RJDFLR .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 97-707 1A9 C2A + S3 + T9 SRM BOOSTER

(RBCSC1)

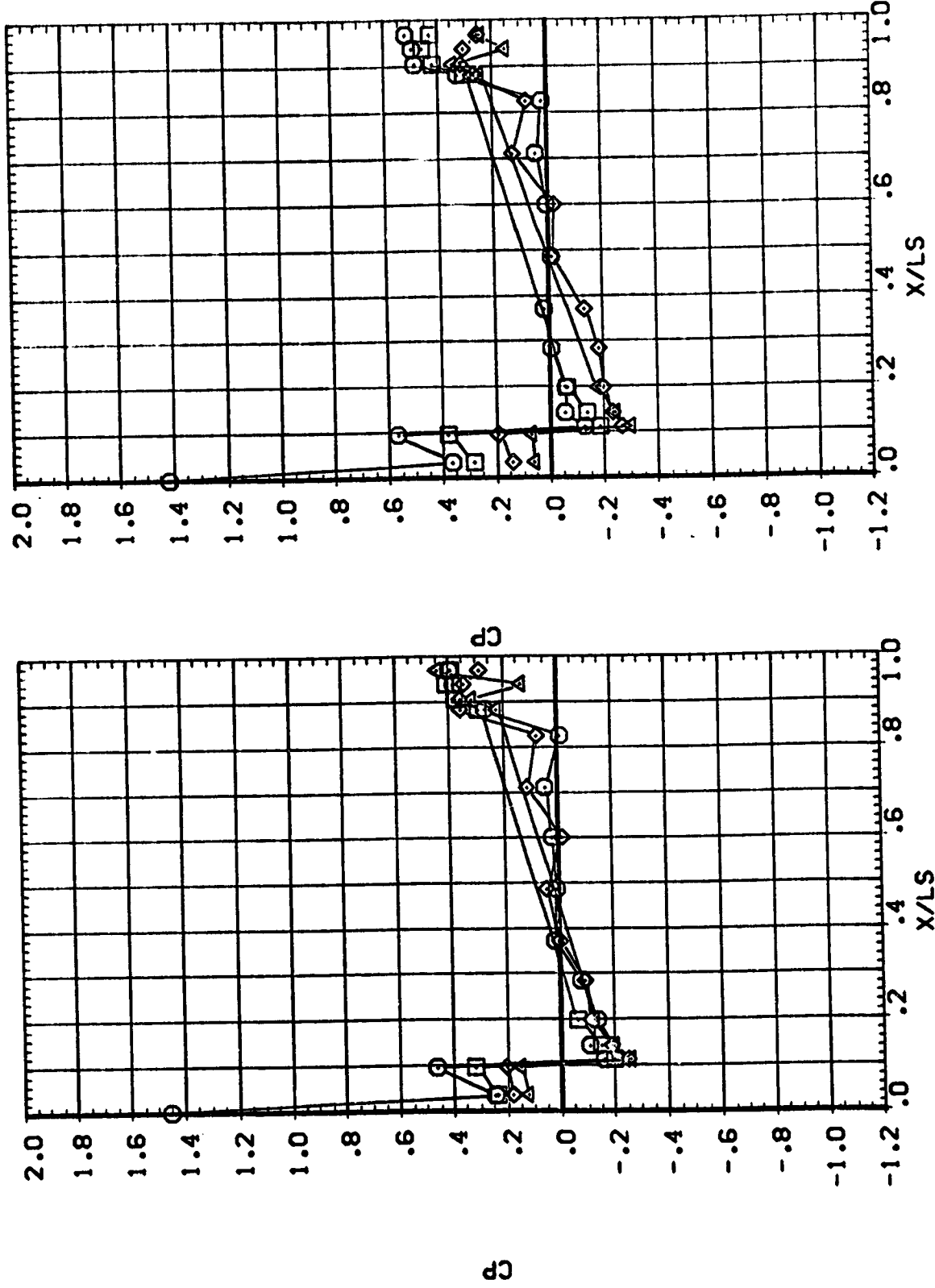
SYMBOL
□
◇
△

PHI .000
45.000
90.000
135.000

ALPHA 4.010
8.130

MACH 1.555

PARAMETRIC VALUES
BETAT .000
RJOER .000
RJOFLR .000
ORBINIC .500
ELEVON .000



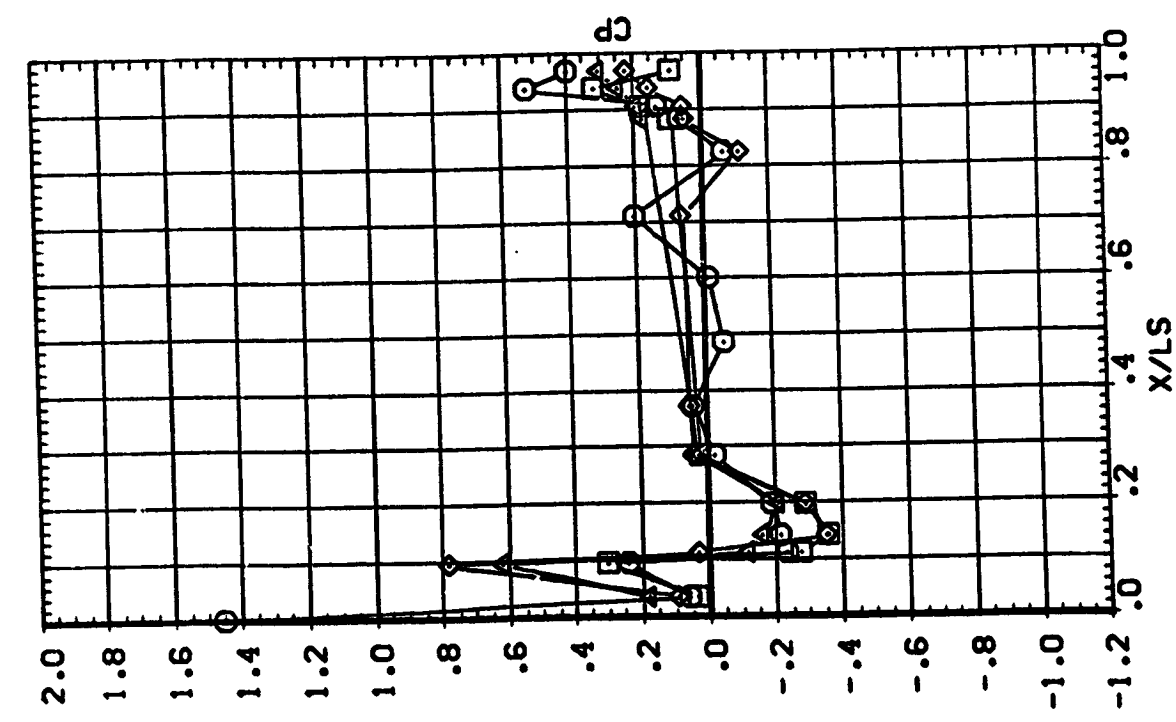
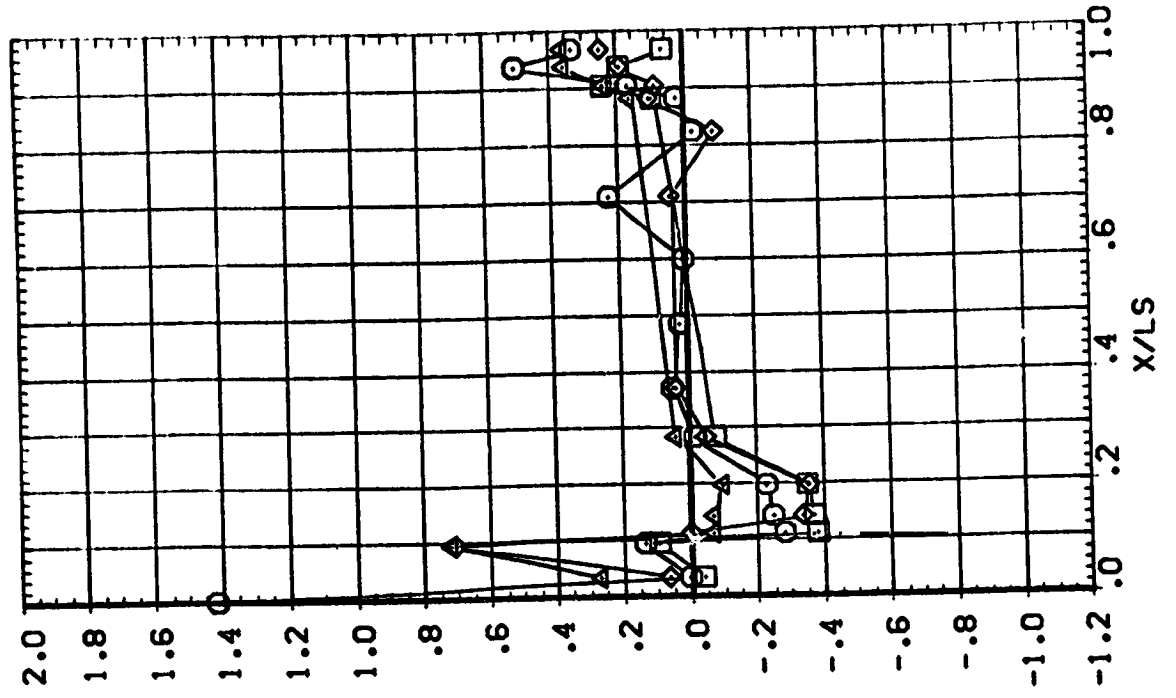
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

SYMBOL PH1
 180.000
 225.000
 270.000
 315.000

ALPHAT MACH
 4.010 1.555
 8.130

BETAT
 RJOER
 RJOFLR

ORBINC
 ELEVON
 .500
 .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

III

(RB0501)

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

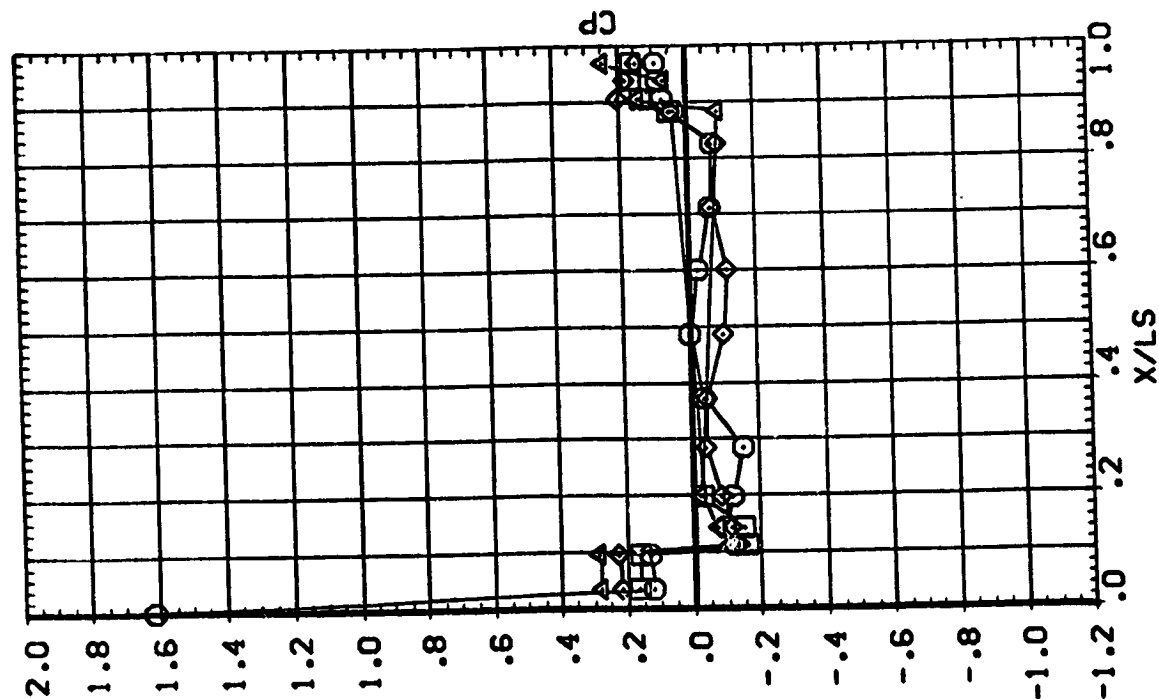
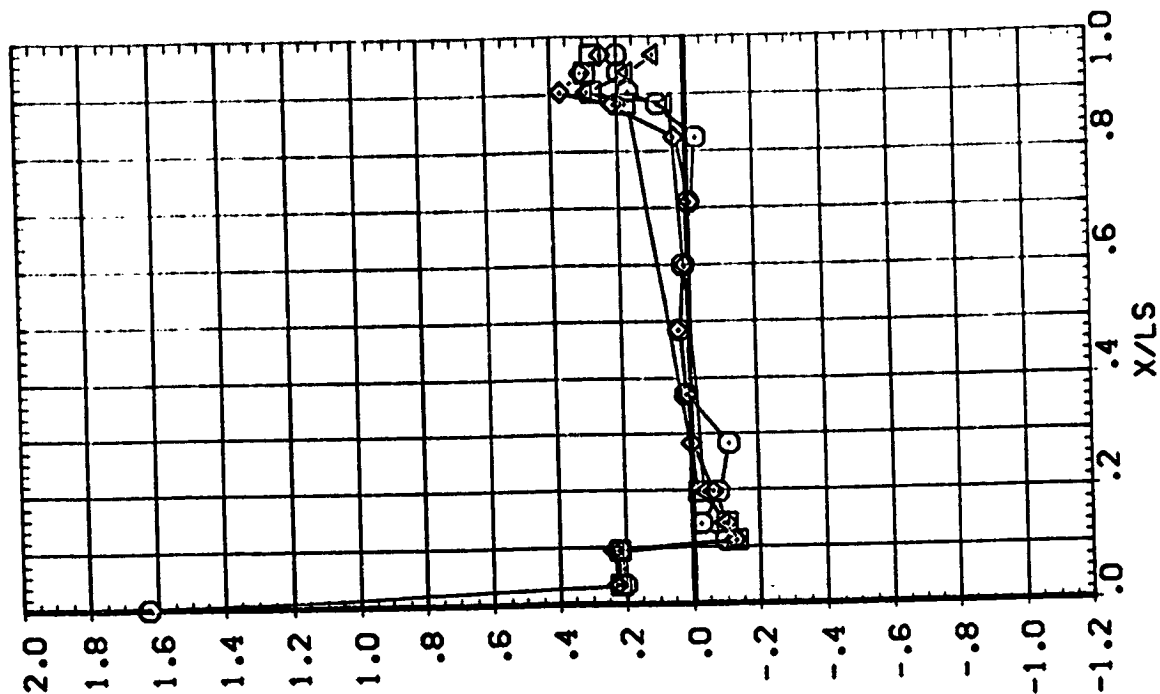
SYMBOL
 ○ □ ◇ △

PHI .000
 45.000
 90.000
 135.000

ALPHAT -4.250
 -.160

MACH 2.000

PARAMETRIC VALUES
 BETAT .000
 RUDDER .000
 RUDDFLR .000
 CRBINC .500
 ELEVEN .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

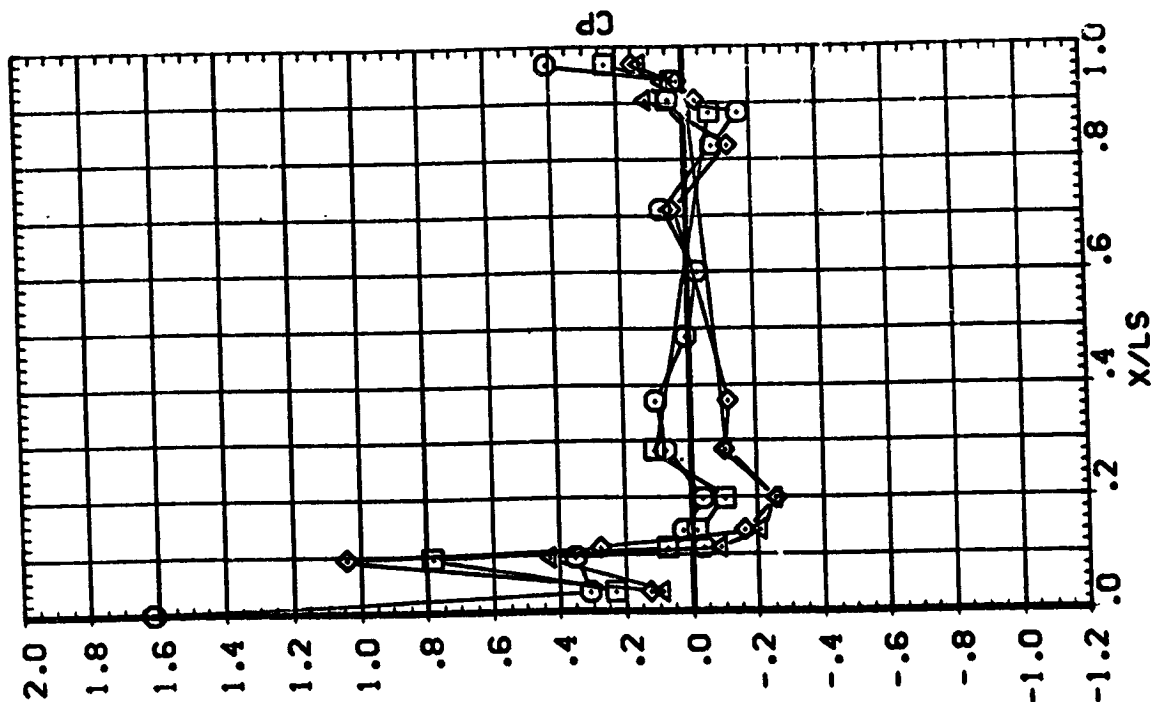
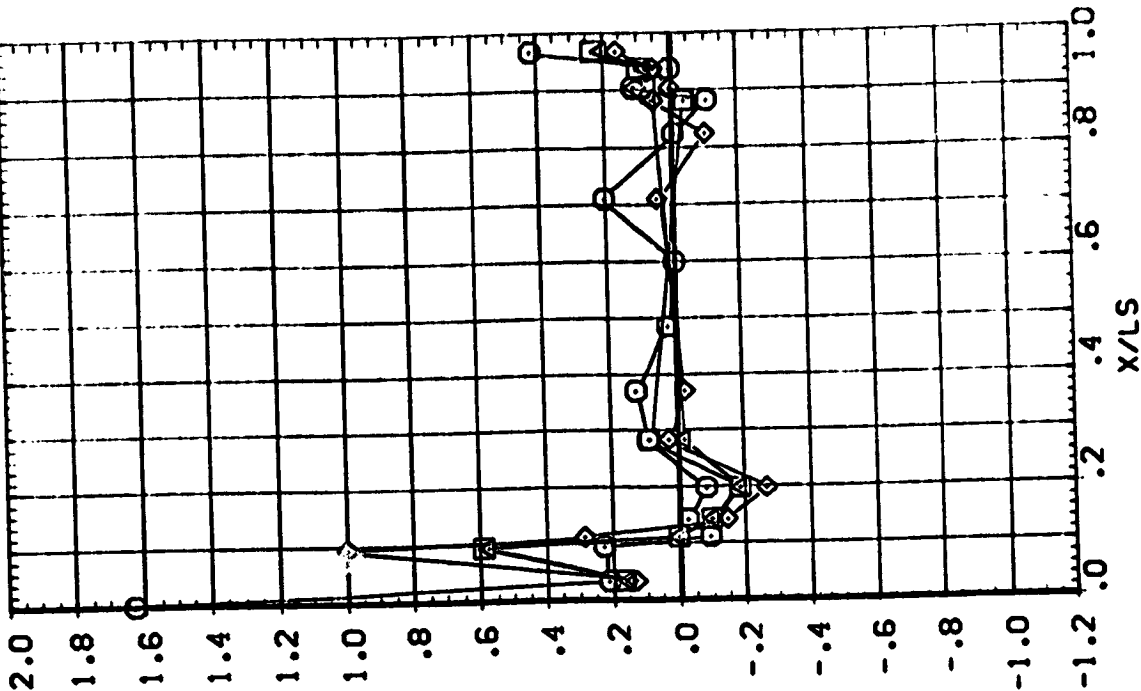
SYMBOL
○ □ ◇ △

PHI
180.000
225.000
270.000
315.000

ALPHA
-4.250
-1.160

MACH
2.000

PARAMETRIC VALUES
BEAT .000
RORDER .000
RORDER .000
CRBINC .500
ELEVON .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

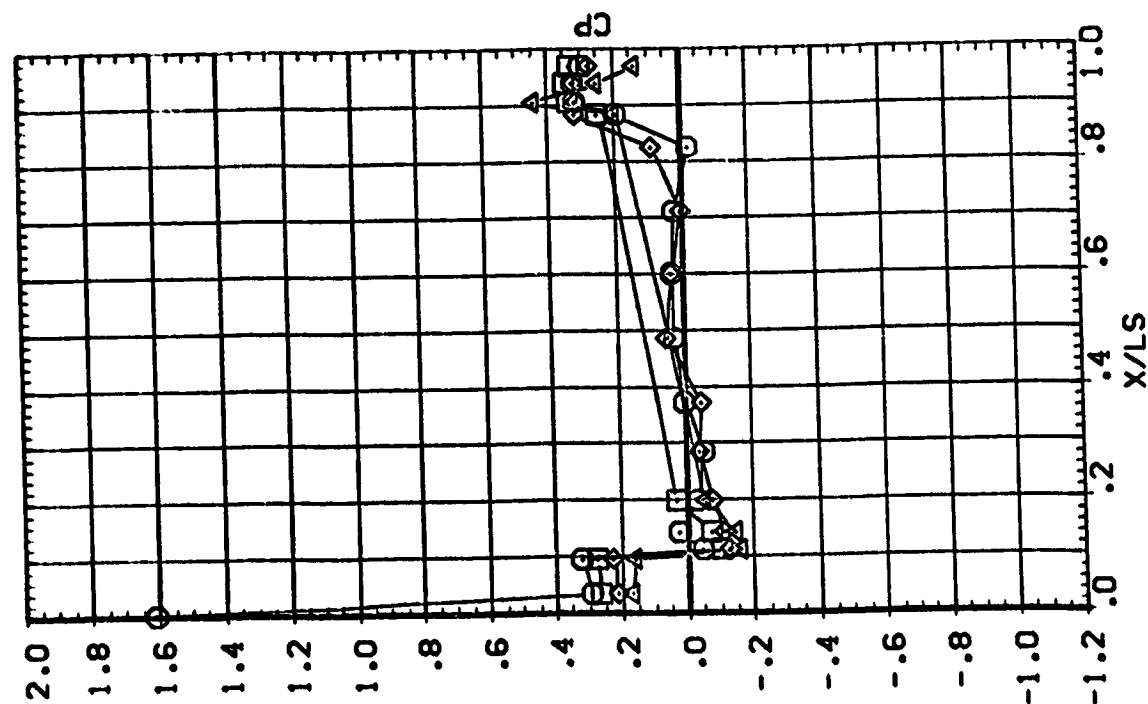
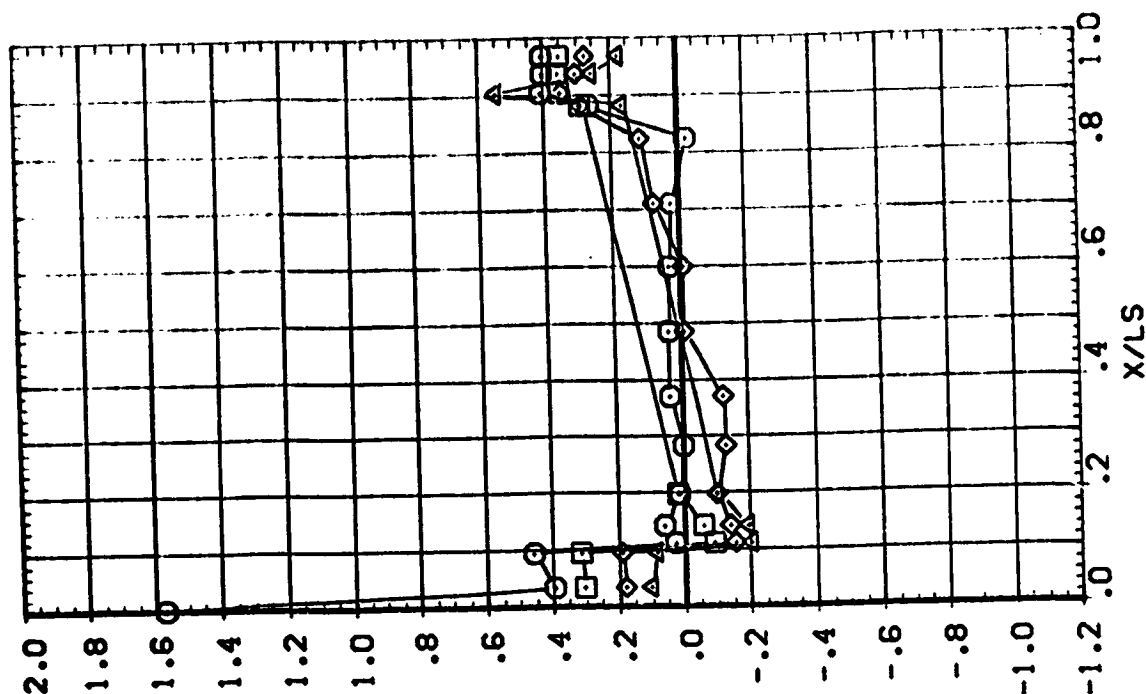
(RB0501)

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

SYMBOL
○ □ ◇ △

PHI .000 45.000 90.000 135.000
ALPHAT 3.930 8.020
MACH 2.000

PARAMETRIC VALUES
BETAT .000 .000 .000 .000
RUDDER .000 .000 .000 .000
ELEVON .000 .000 .000 .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

(RB0501)

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

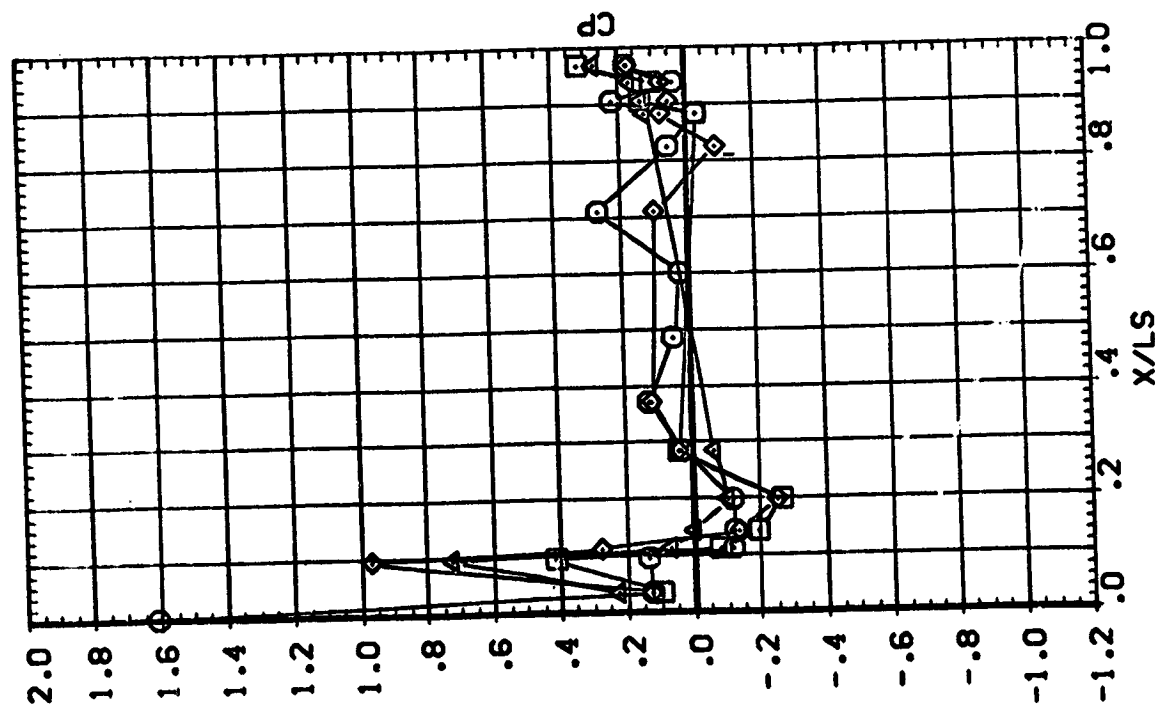
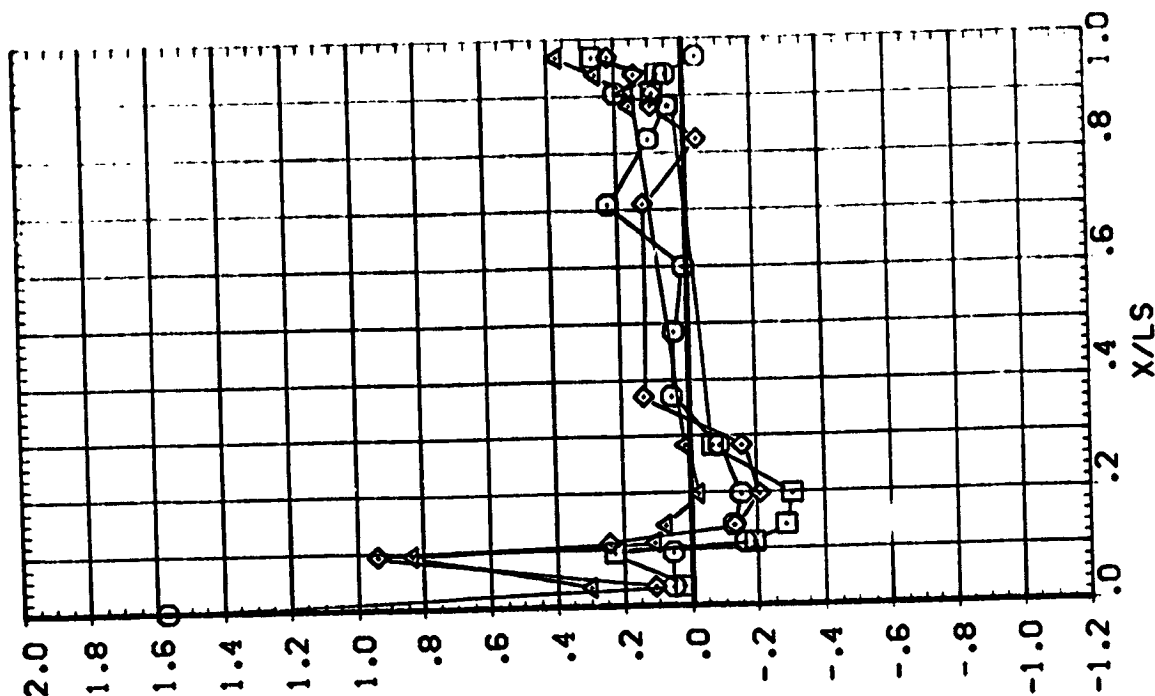
SYMBOL
○
□
◇
△

PHI
180.000
225.000
270.000
315.000

ALPHAT
3.930
8.020

MACH
2.000

PARAMETRIC VALUES
BETAT .000
RUDDER .000
RUOFLR .000
S91NC .500
ELEVON .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

(RB0502)

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

SYMBOL
○ □ ◇ △

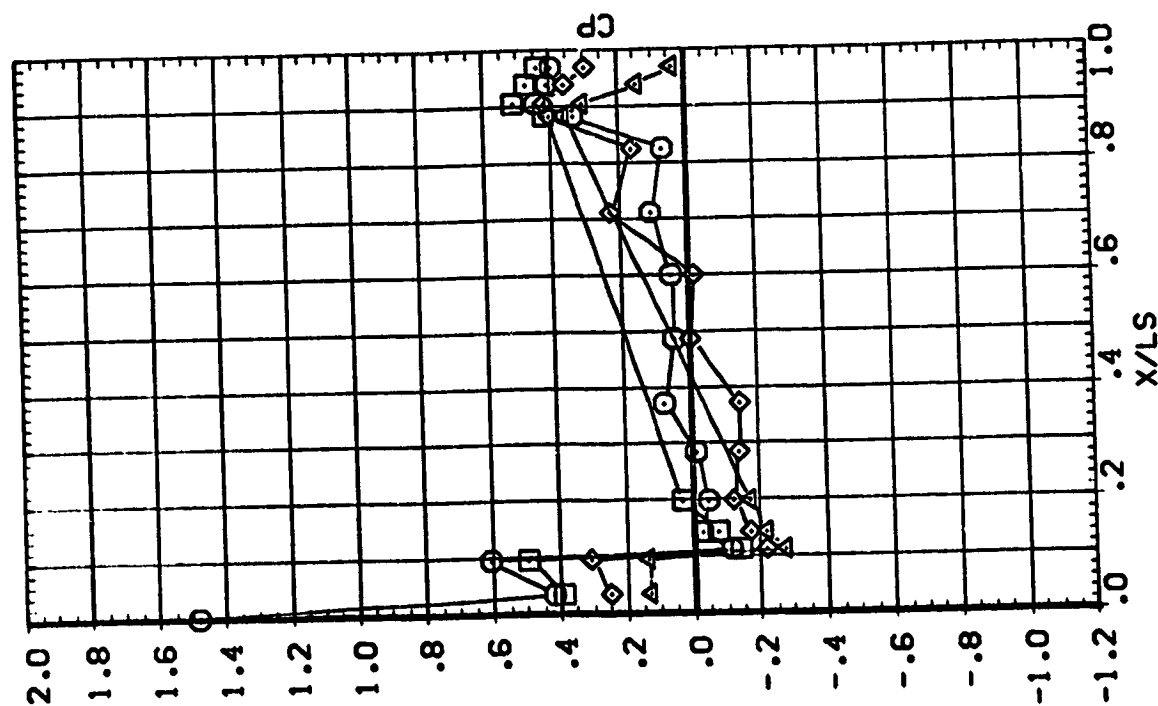
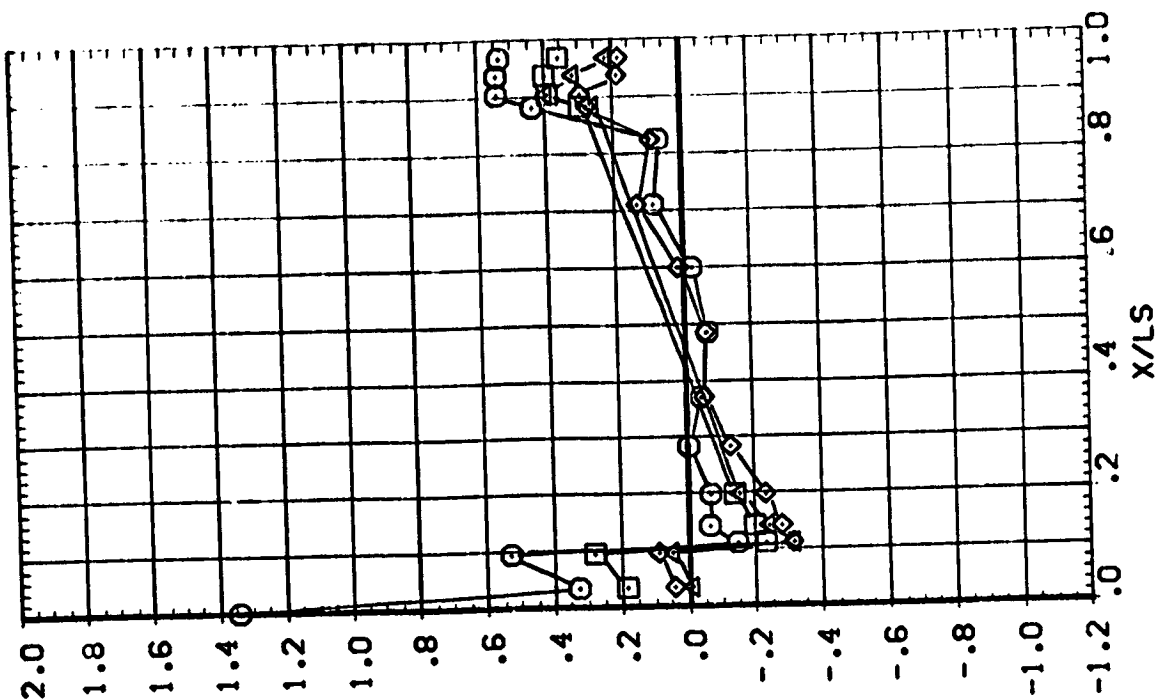
PHI .000
45.000
90.000
135.000

BETA° -5.100
5.110

MACH 1.555

PARAMETRIC VALUES
ALPHAT 8.000
RUDDER .000
RUOFLR .000

OSB:NC .500
ELEVON .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

[RB0502]

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

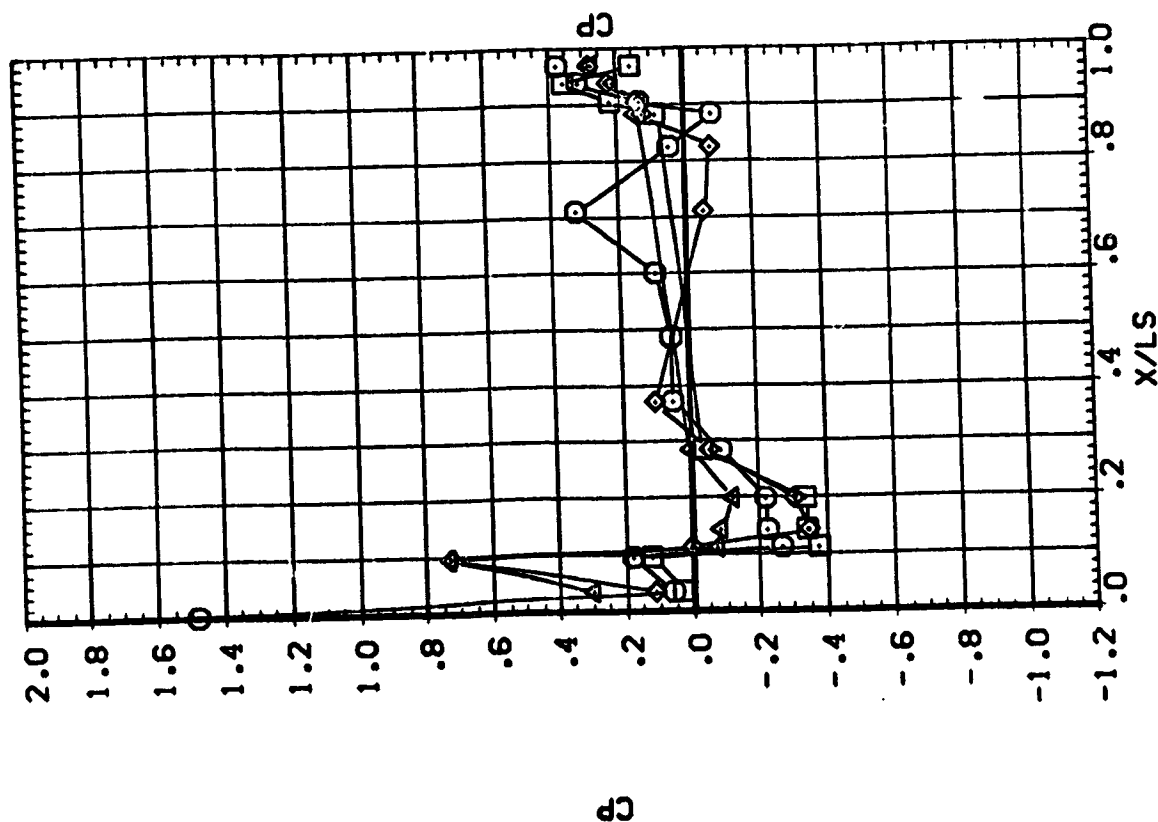
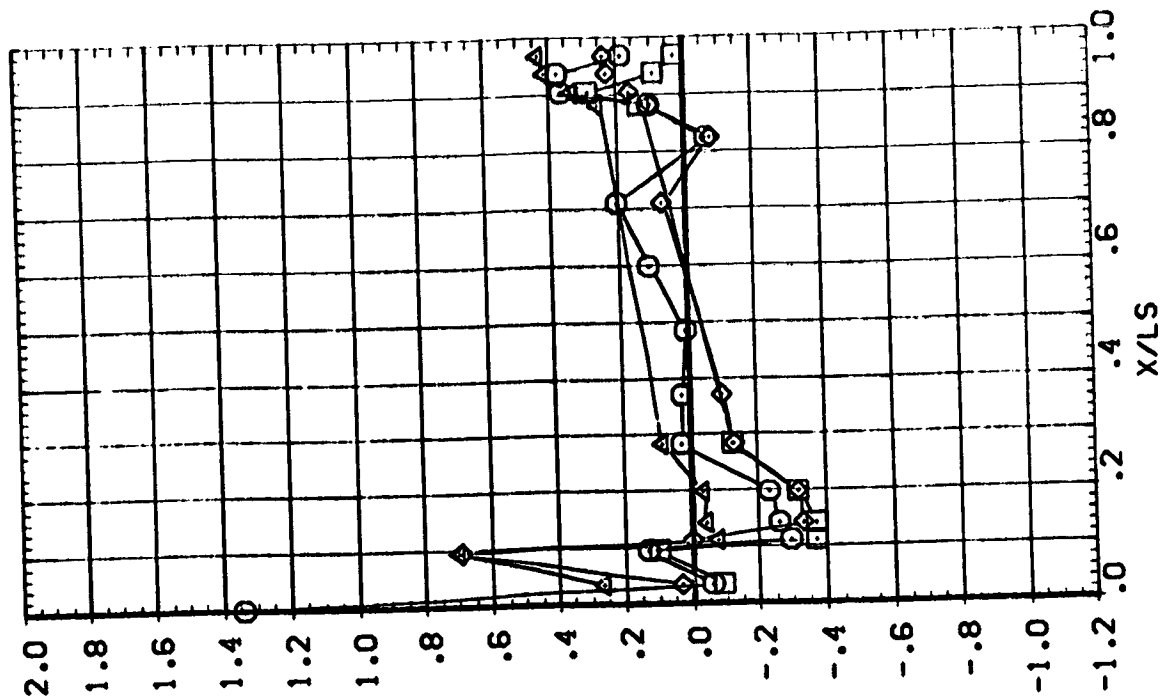
SYMBOL
 ○ □ ◇ △

PHI
 180.000
 225.000
 270.000
 315.000

BETAT
 -5.100
 5.110

MACH
 1.555

PARAMETRIC VALUES
 ALPHAT 8.000
 RUDGER .000
 RUFLR .000
 CRBINC .500
 ELEVON .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AVES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

(RB0502)

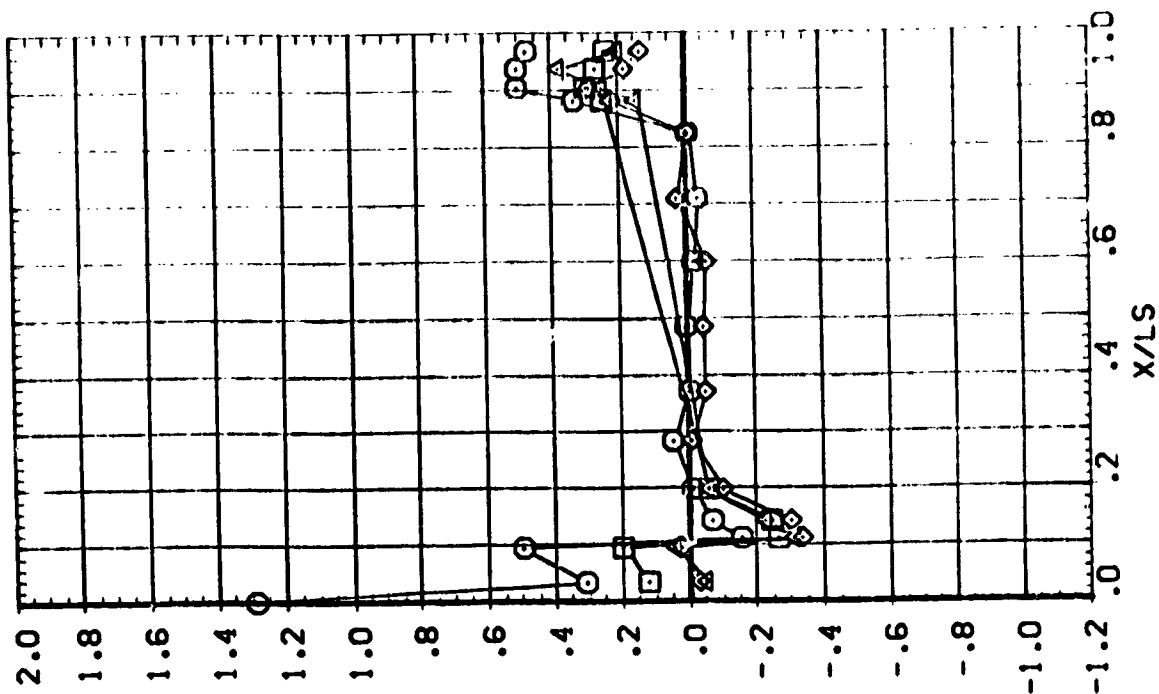
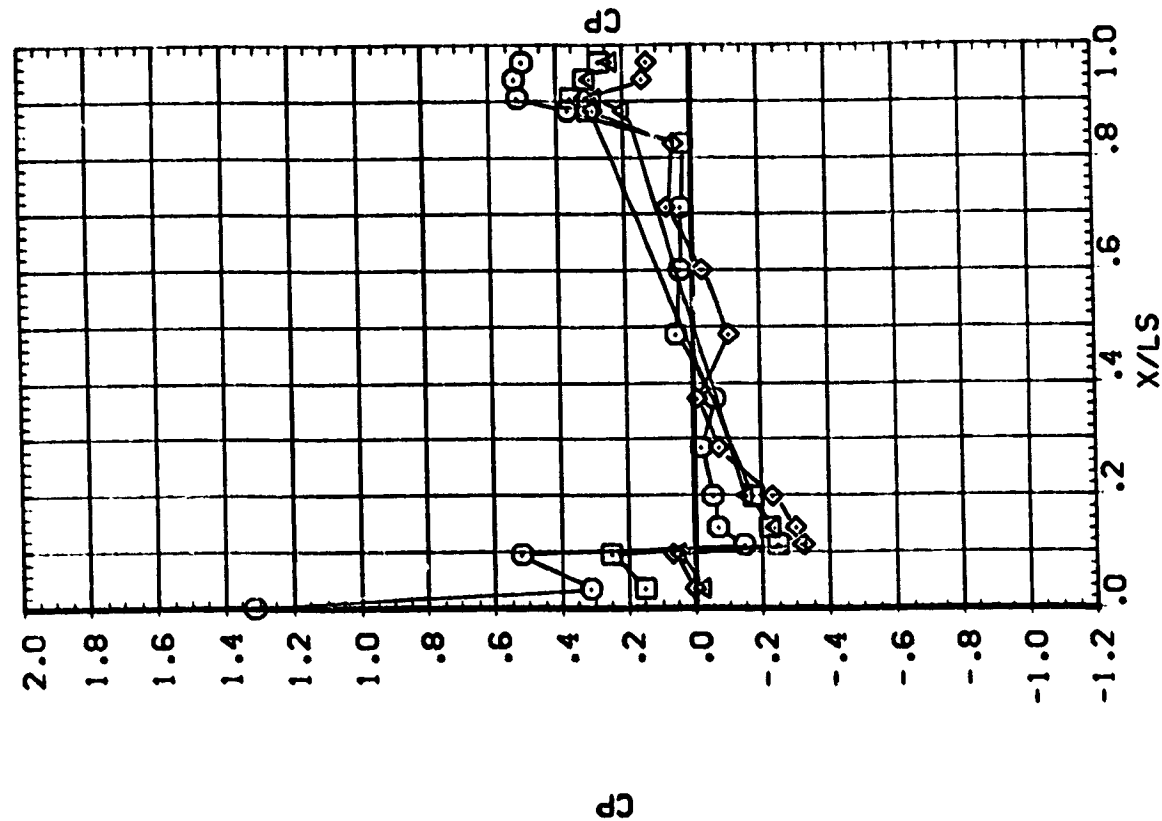
SYMBOL

PHI
.000
45.000
90.000
135.000

BETAT MACH
7.140 1.555
9.190

PARAMETRIC VALUES
ALPHAT 8.000
RUDDER .000
RUDDFLR .000

.500
.000
ELEVON
.000



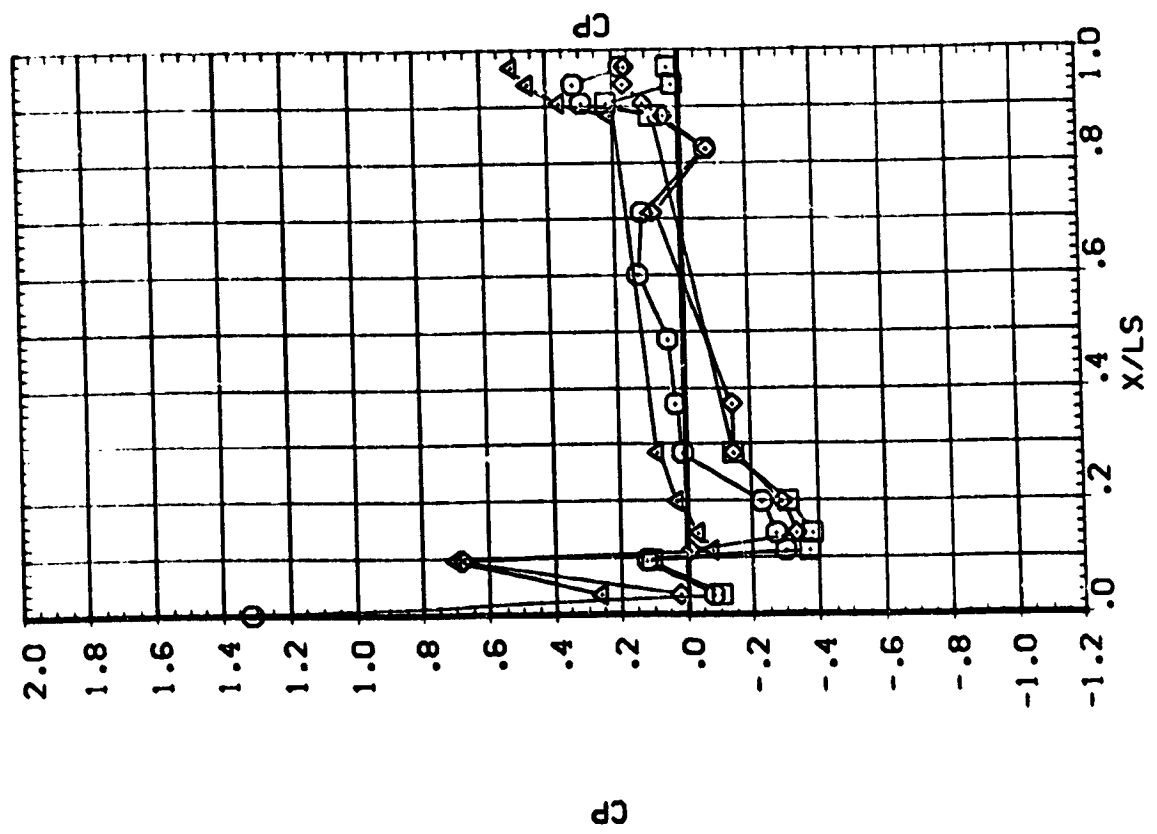
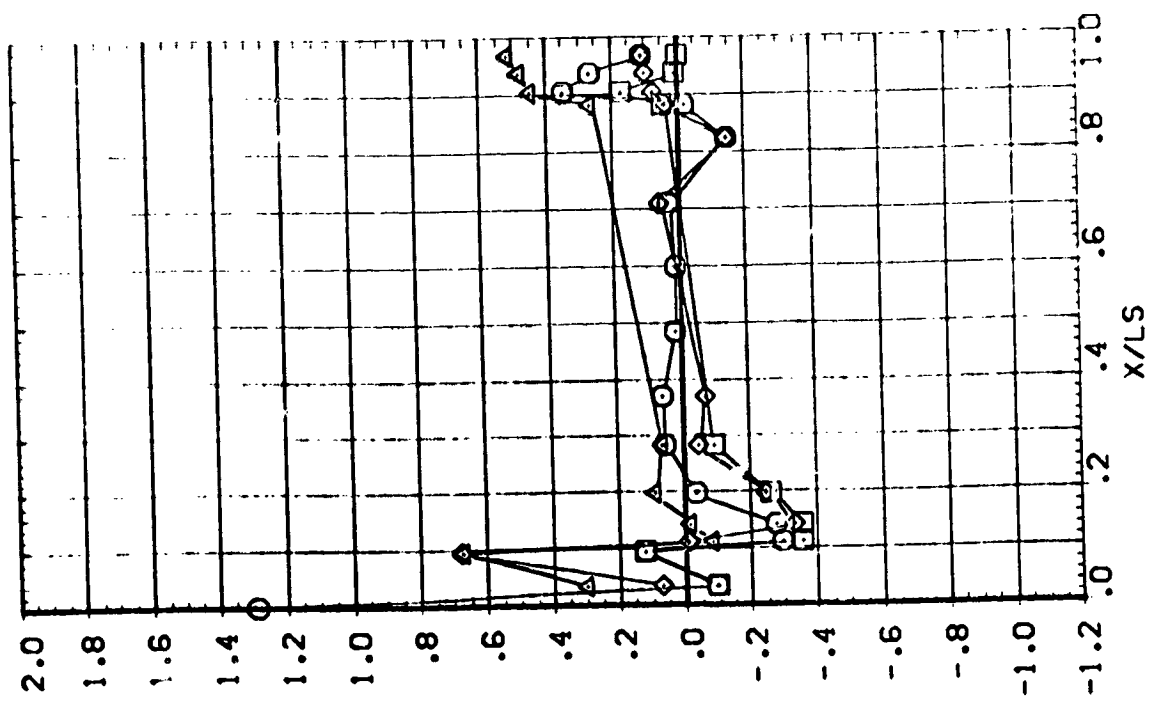
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

(R3C5C2)

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

PARAMETRIC VALUES
ALPHA 8.000
BETTER 1.000
ELEVON 1.000
500
1.000

PHI 180.000
275.000
270.000
315.000
BETAT 7.140
9.190
MACH 1.555



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

[RB0502]

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

SYMBOL
 ○
 □
 ◇
 △

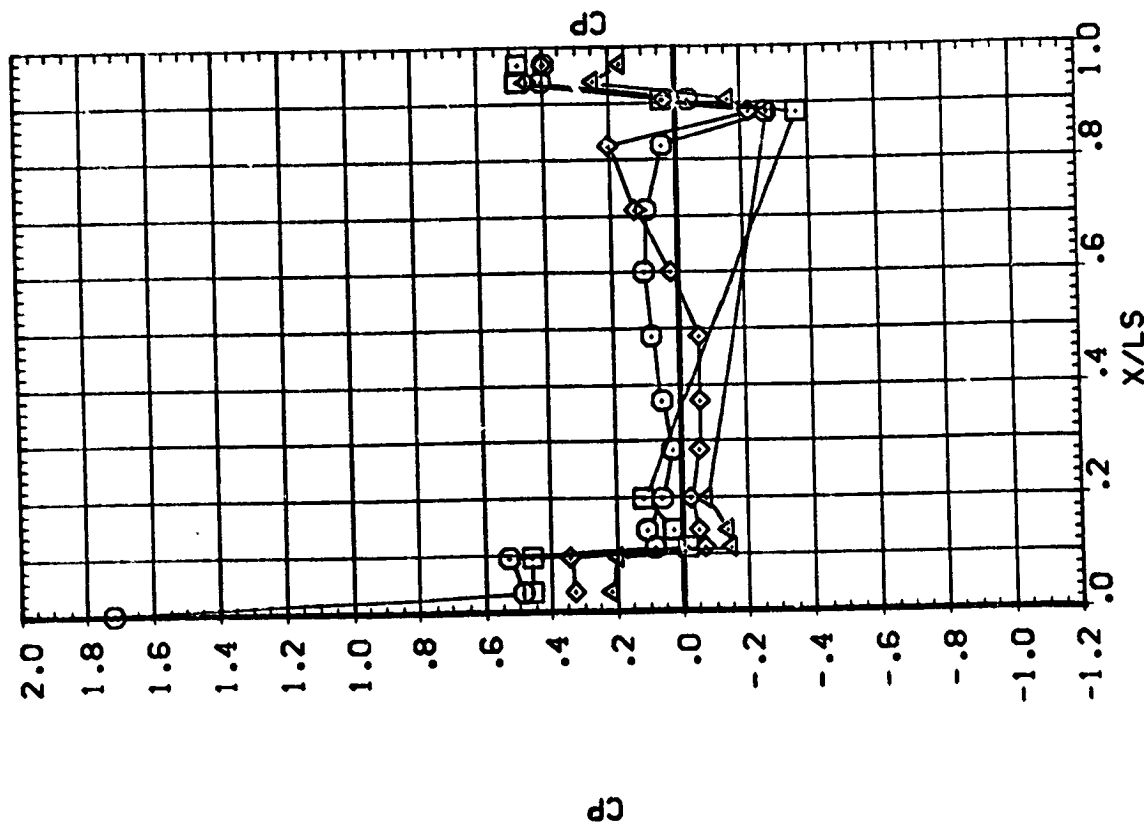
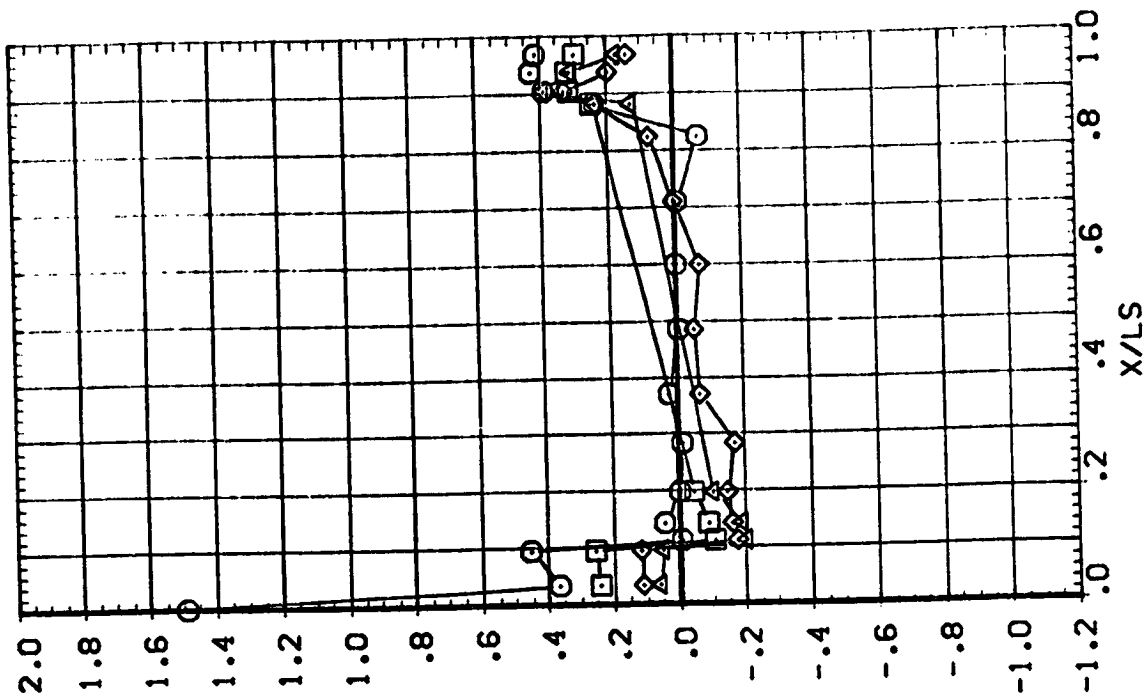
PHI .000
 45.000
 90.000
 135.000

BETAT -6.270
 3.990

MACH 2.000

PARAMETRIC VALUES
 ALPHAT 8.000
 RUDDER .000
 RUDDL 0.000

CRBINC .500
 ELEVEN .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

ALPHAT
RUDDER
RUDDFLR

PHI
180.000
275.000
270.000
315.000

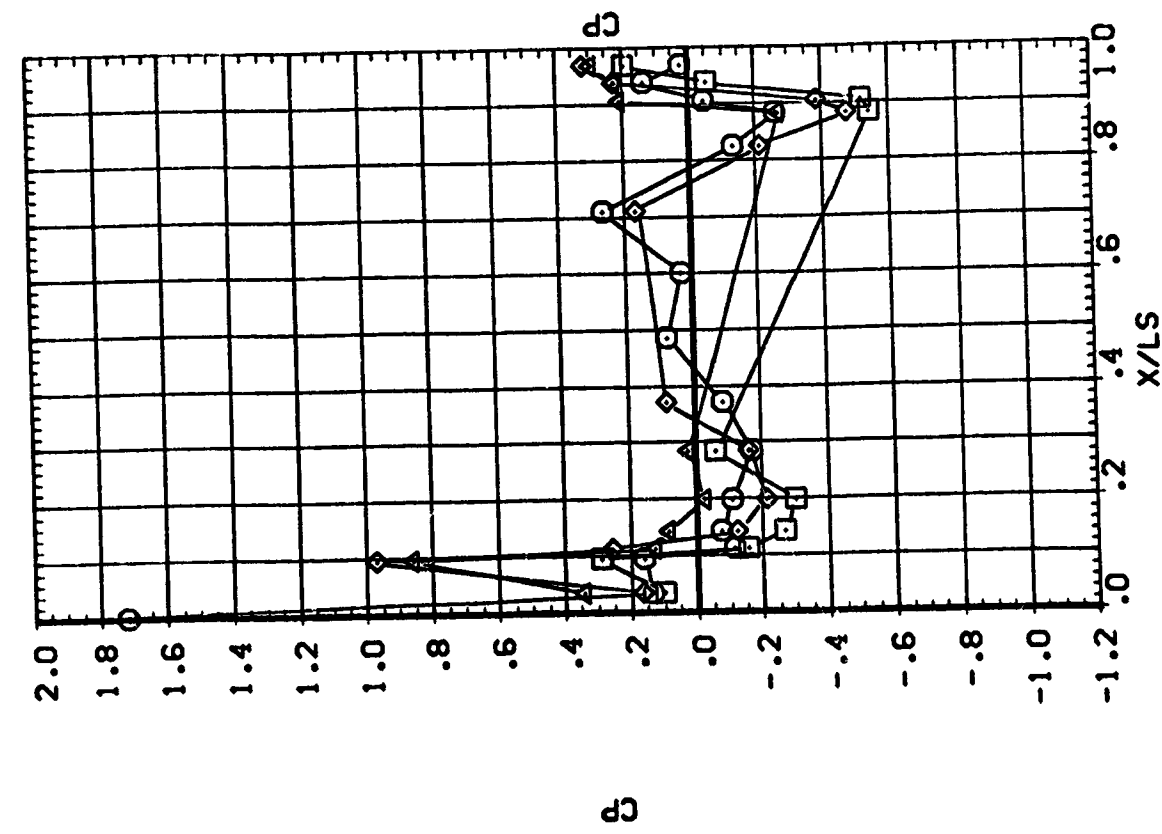
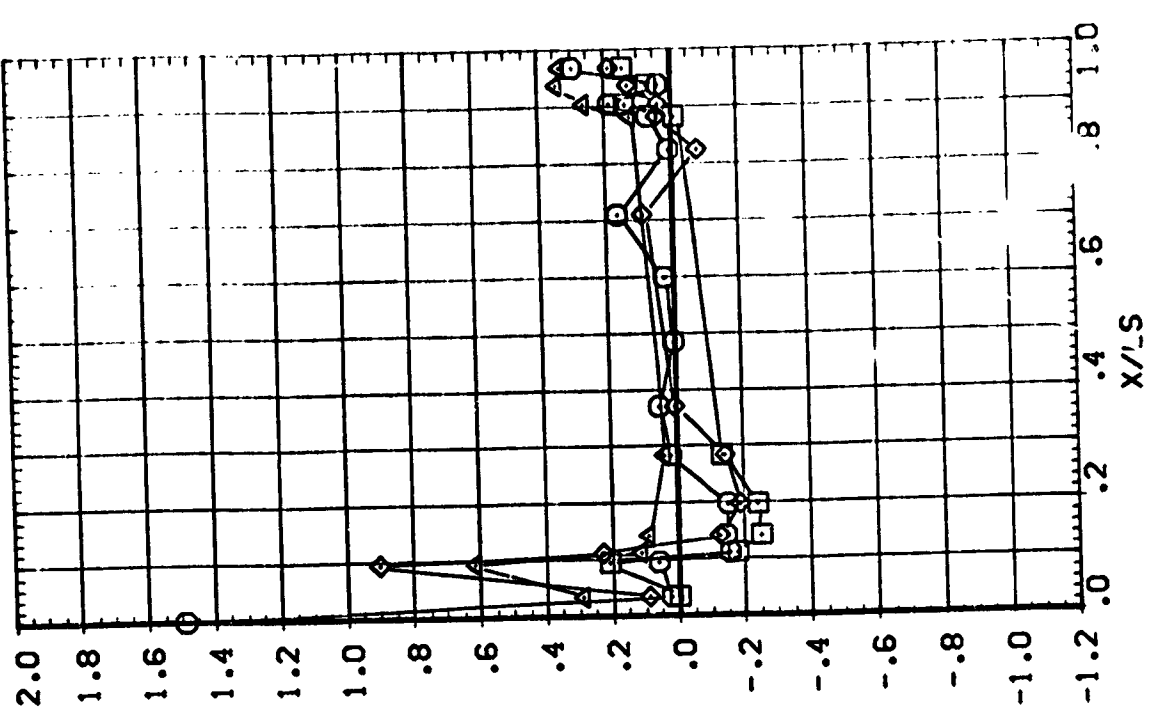
SYMBOL
○ □ ◇ △

BETAT
-6.270
3.990

MACH
2.000

8.000
.000
.000
.000

999.12
ELEV



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

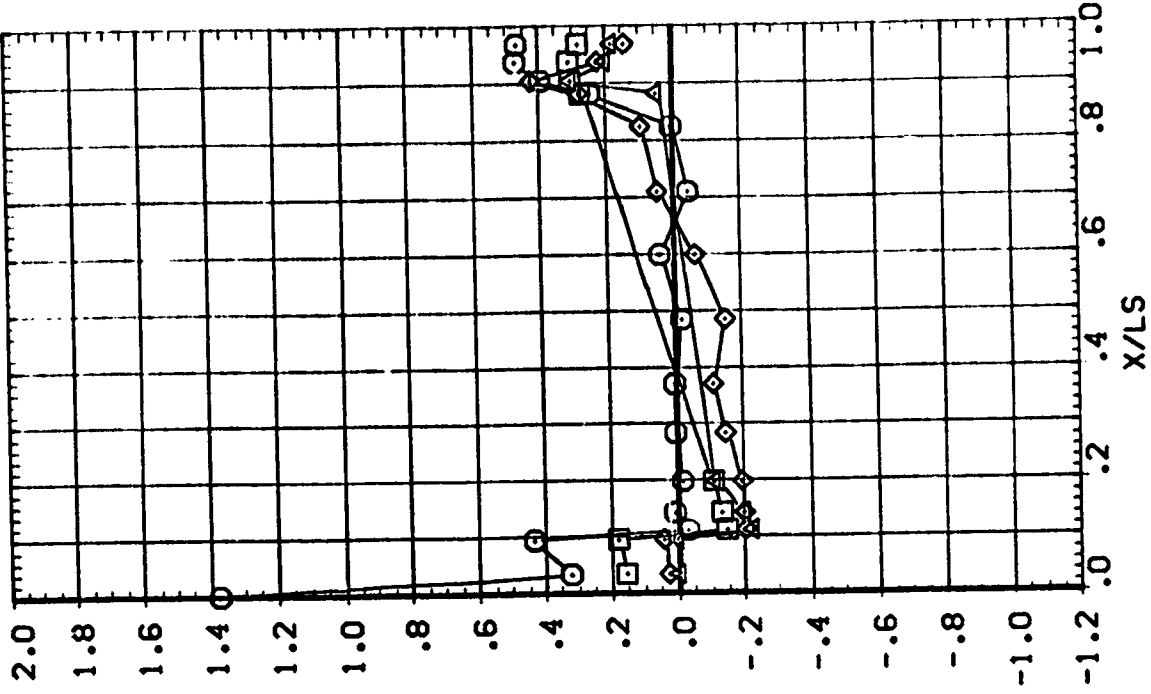
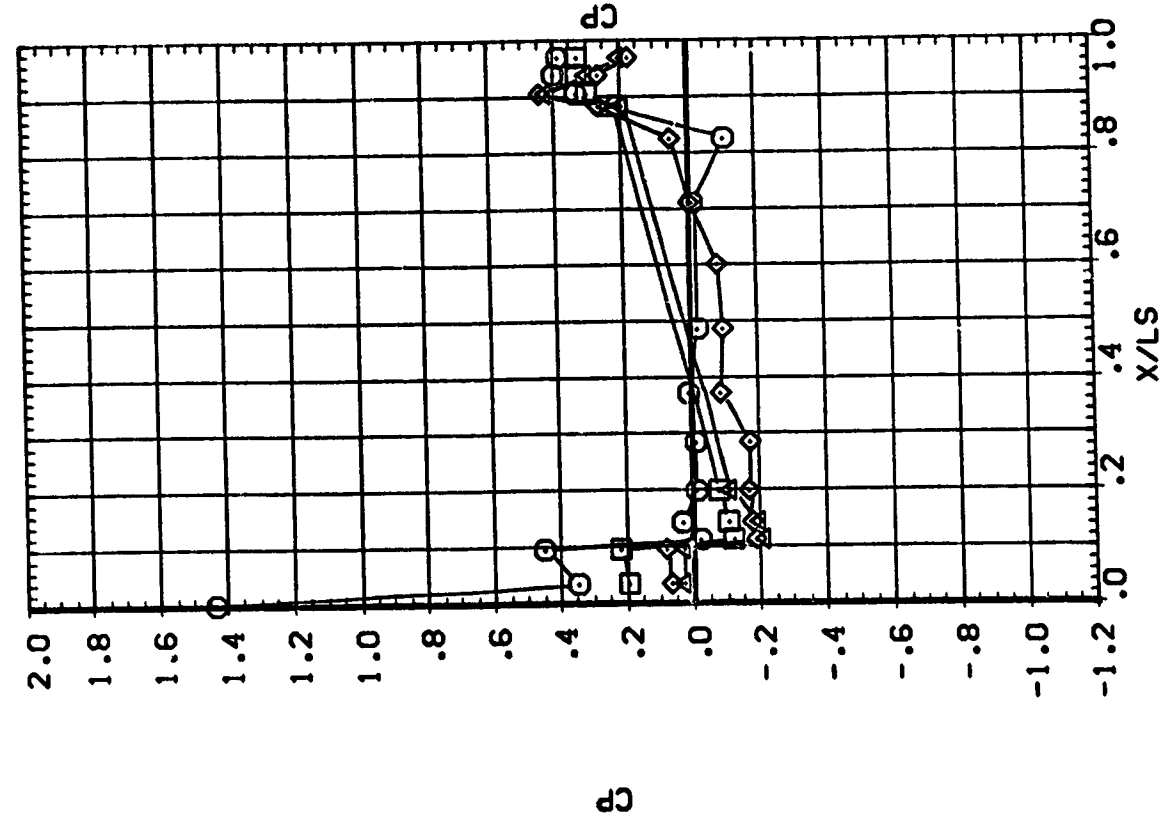
AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

(RB0502)

SYNOPSIS
 PH1
 .000
 45.000
 90.000
 135.000

BETAT MACH
 6.060 2.000
 8.120

PARAMETRIC VALUES
 ALPHAT 8.000 CRGINC .500
 RUDDER .000 ELEVEN .000
 RUDEL .000

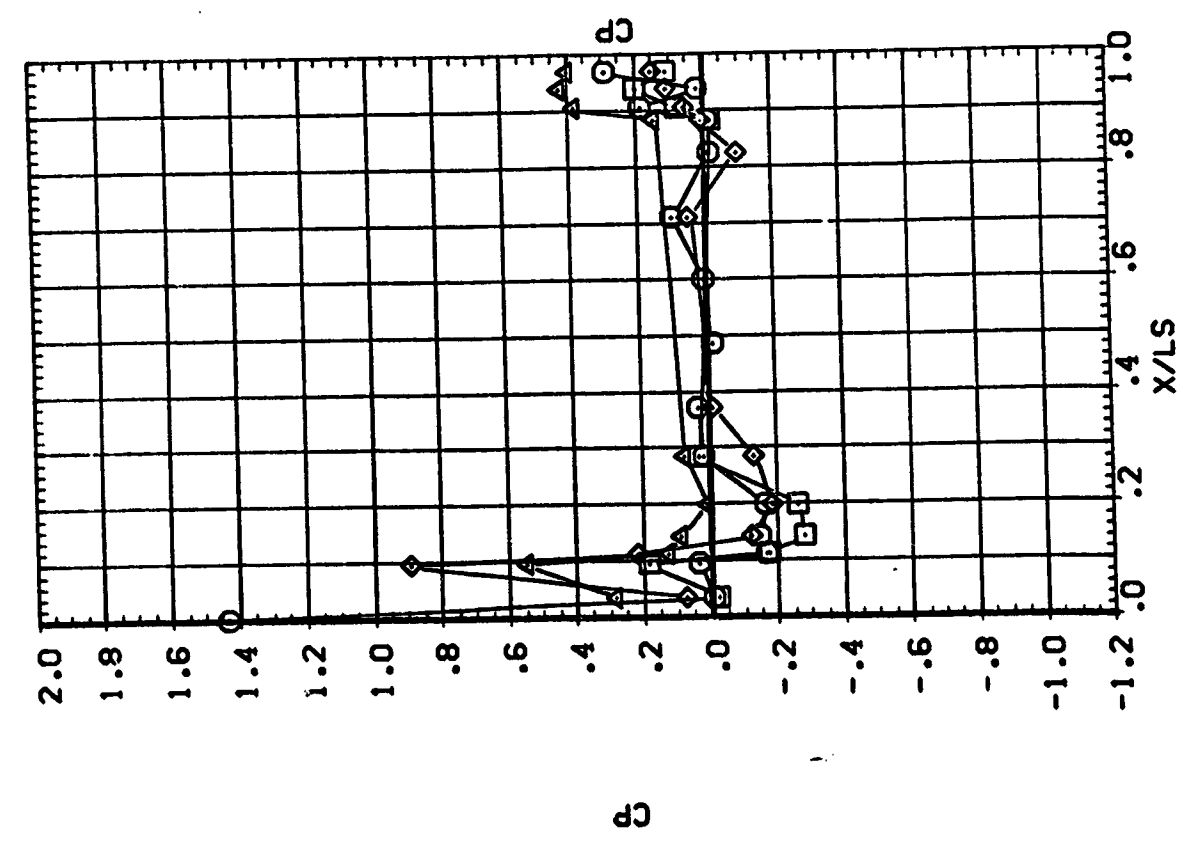
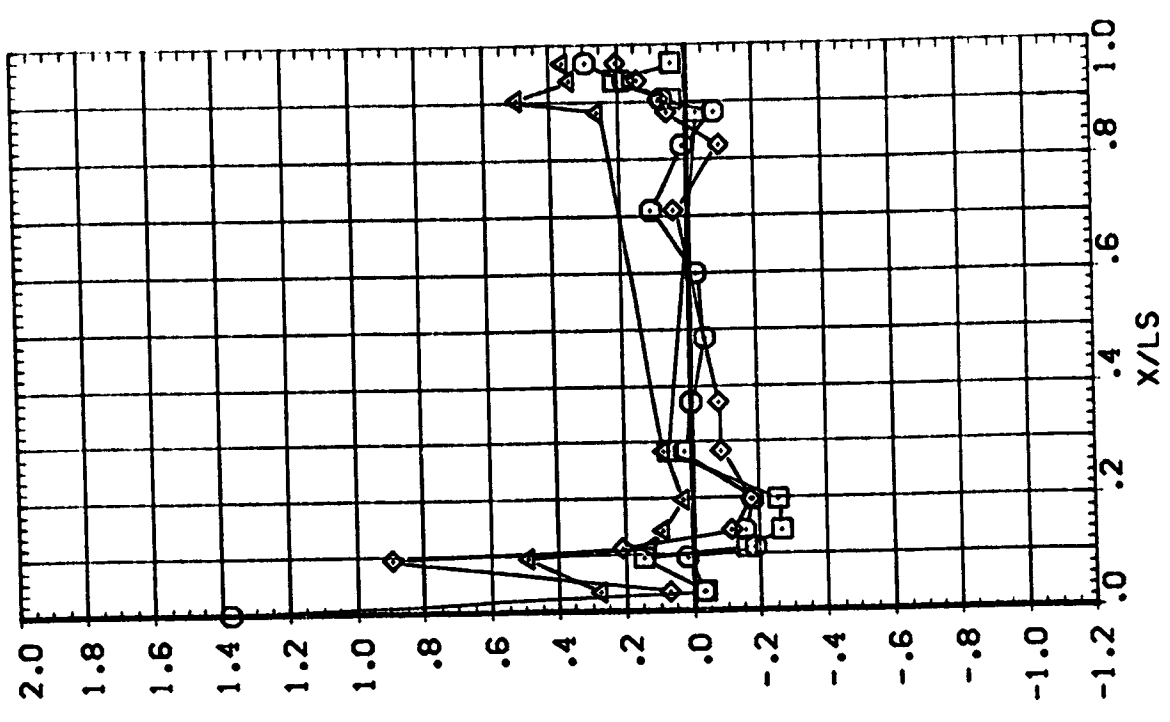


LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

ROCKET ELEVATION
ROCKET ELEVATION

6.050 8.120
180.000 225.000 270.000 315.000

○ □ ◇ △



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

(RB3504)

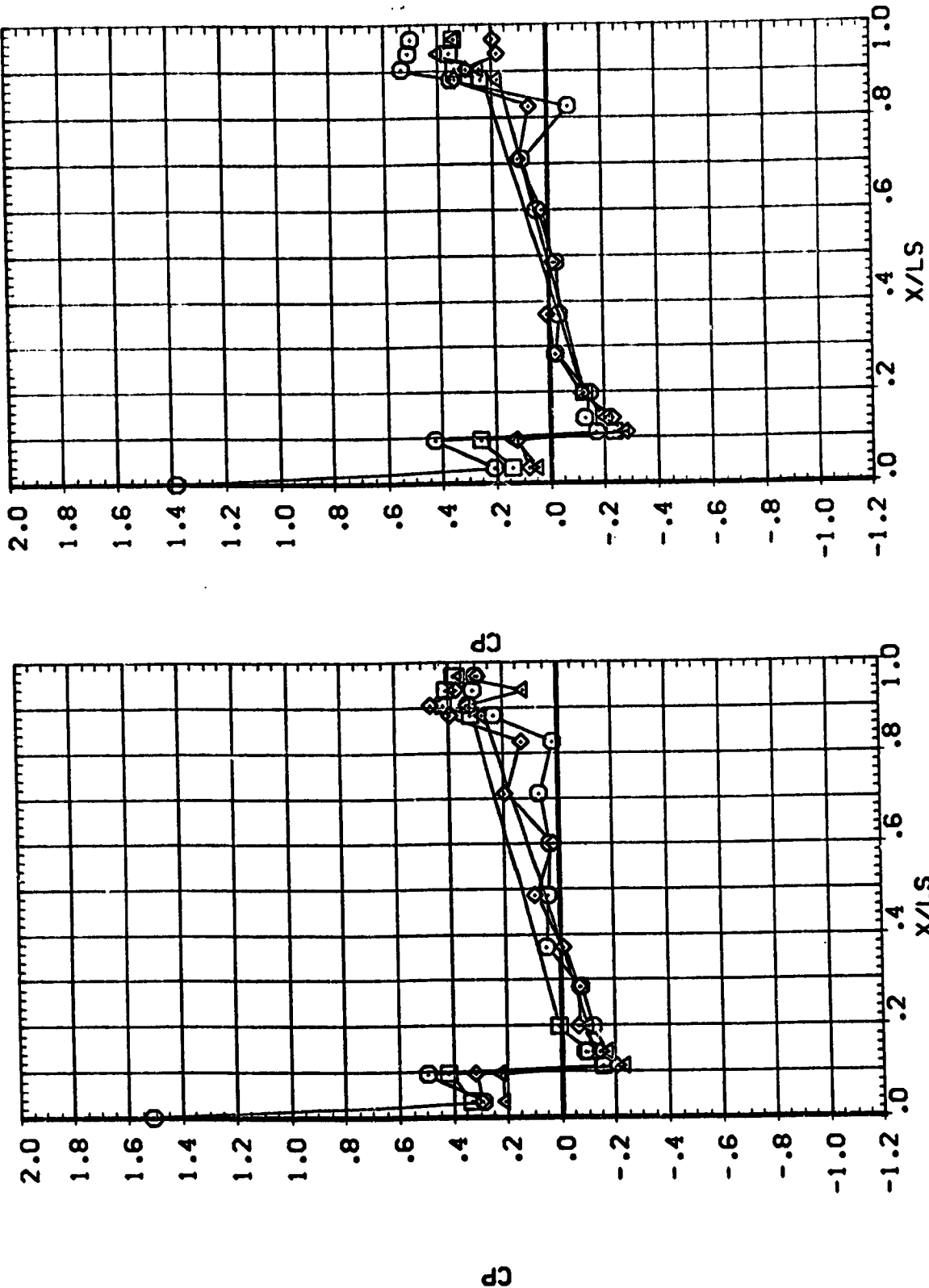
SYMBOL
 ○ □ ◇ △

PHI .000
 45.000
 90.000
 135.000

BETAT -5.070
 5.060

MACH 1.555

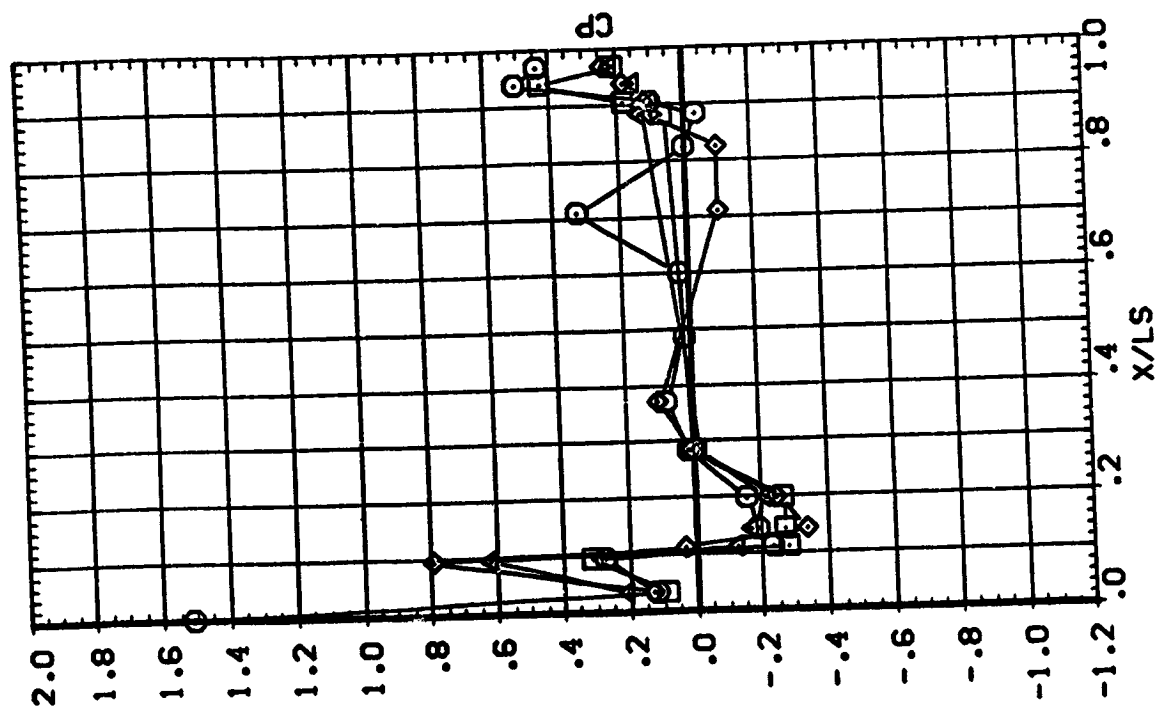
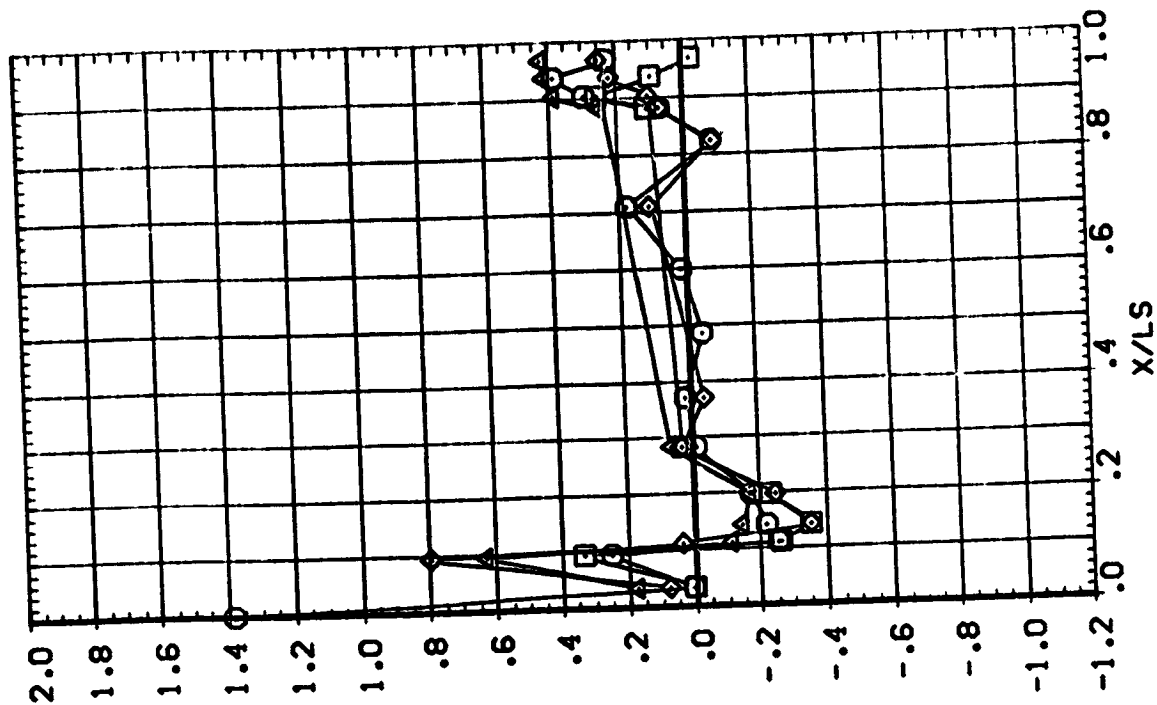
PARAMETRIC VALUES
 ALPHA1 4.000
 RUGGER .000
 RUGFLR .000
 ORBINC .500
 ELEVON .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

ALPHAT
 RZDER
 RZFLR
 4.000
 .000
 .000
 ORBINC
 ELEVON
 .500
 .000

PH1
 180.000
 225.000
 270.000
 315.000
 BETAT
 -5.070
 5.060
 MACH
 1.555



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 97-707 1A9 C2A + S3 + T9 SRM BOOSTER

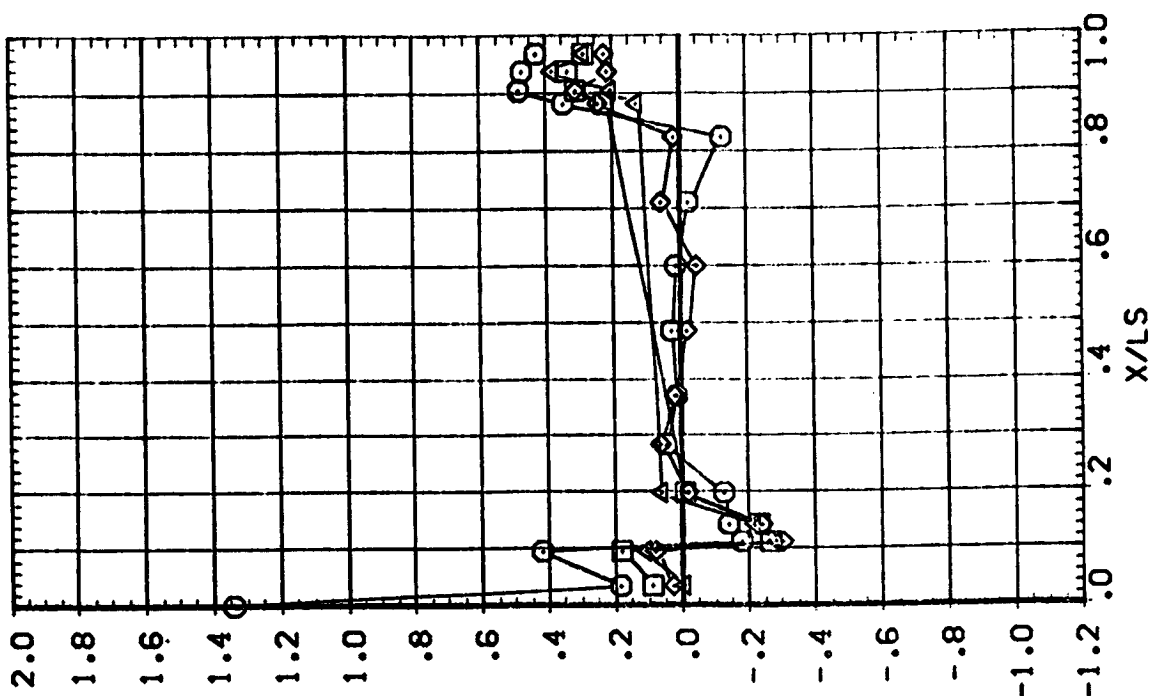
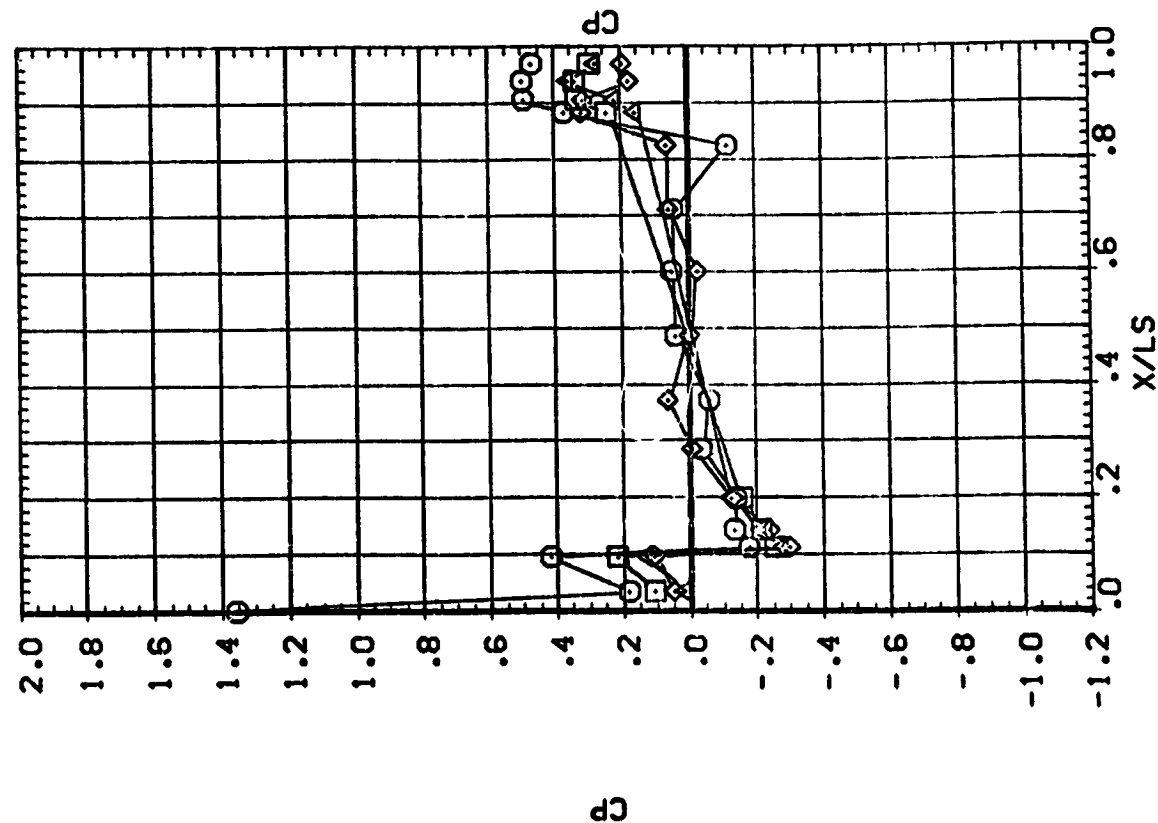
(RBCSC4)

SYMBOL
○ □ ◇ △

PHI
.000
45.000
90.000
135.000

BETAT MACH
7.080 1.555
9.100

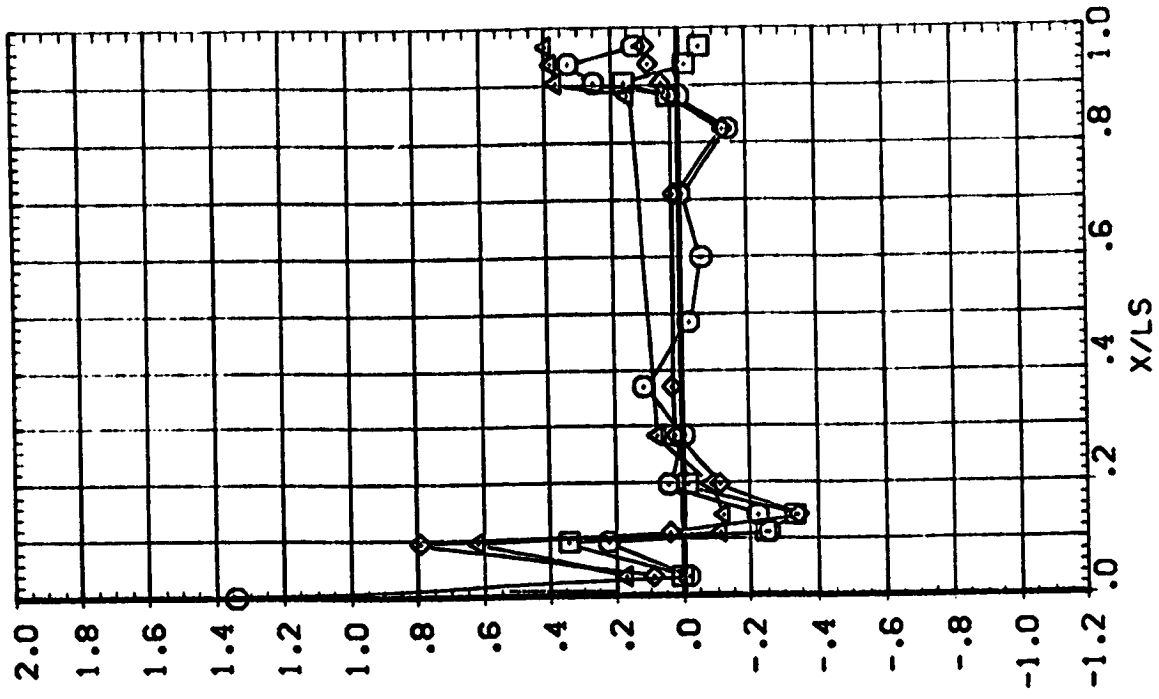
PARAMETRIC VALUES
ALPHAT 4.000 CRBTINC .500
RUDDER .000 ELEVEN .000
RUOFLR .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

PARAMETRIC VALUES

ALPHAT	4.000	ORBNIC	.500
RUCOR	.000	ELEVON	.000
RUCFLR	.000		

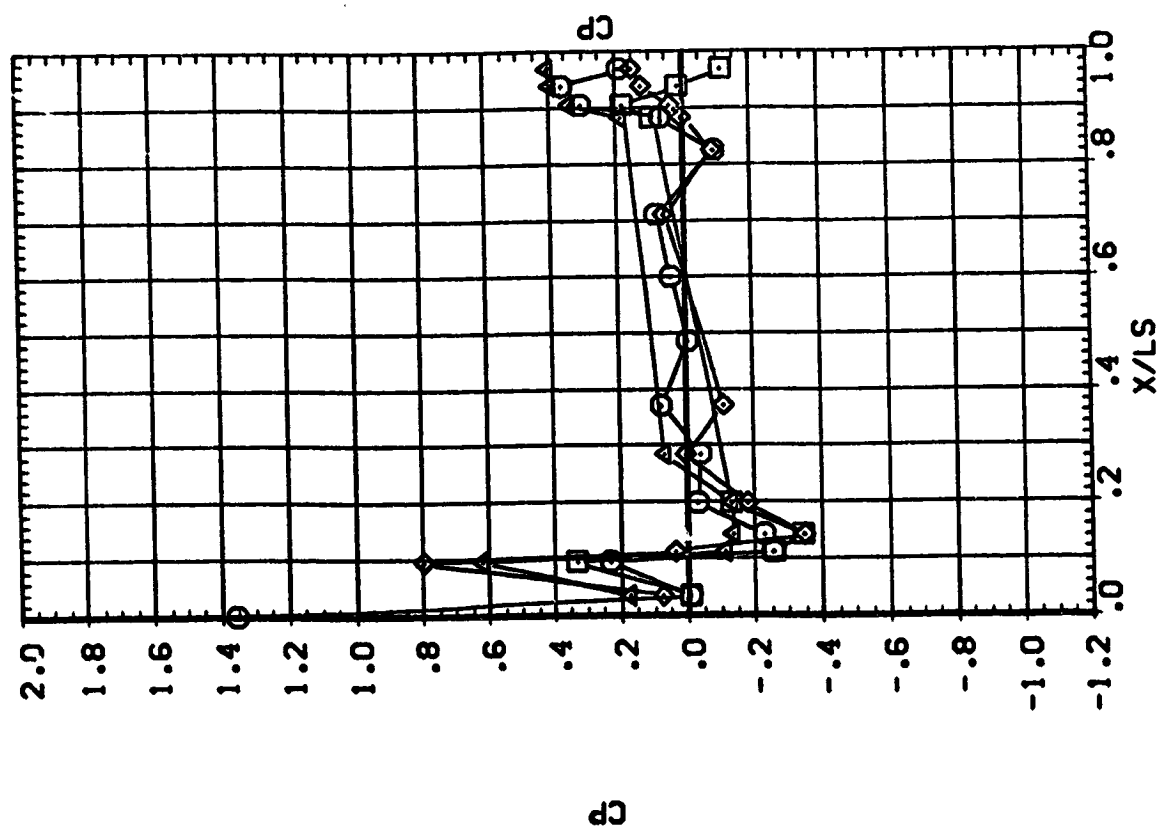


PHI

180.000	BETAT	7.080	MACH	1.555
225.000		9.100		
270.000				
315.000				

SYMBOL

○	□	◇	△
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LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

(R30504)

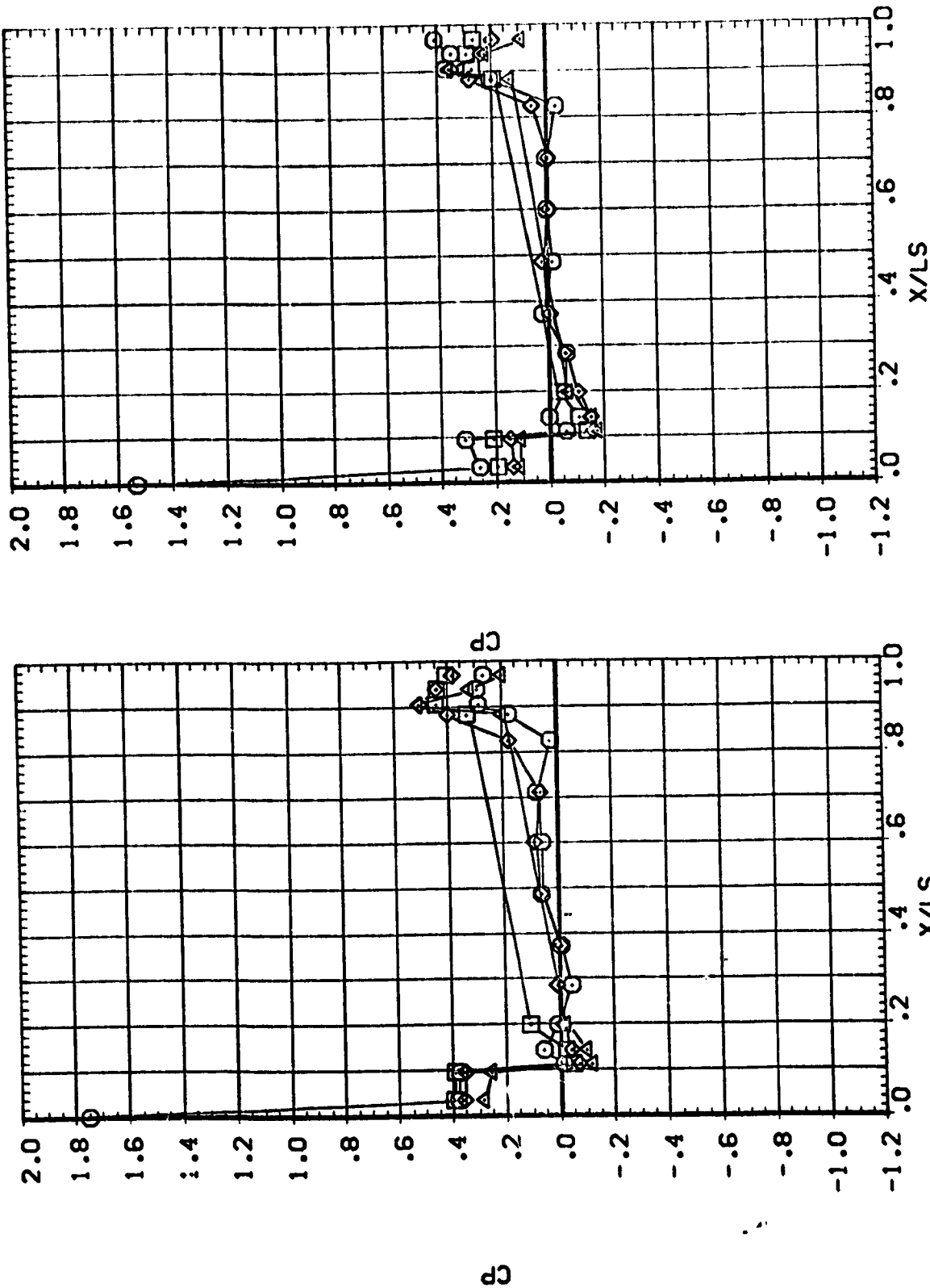
SYMBOL
 ○
 □
 ◇
 △

Wt: .000
 45.000
 90.000
 135.000

BETAT -6.240
 3.950

MACH 2.000

PARAMETRIC VALUES
 ALPHAT 4.000
 RUDER .000
 RUFLR .000
 CRGINC .500
 ELEVON .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

1480504J

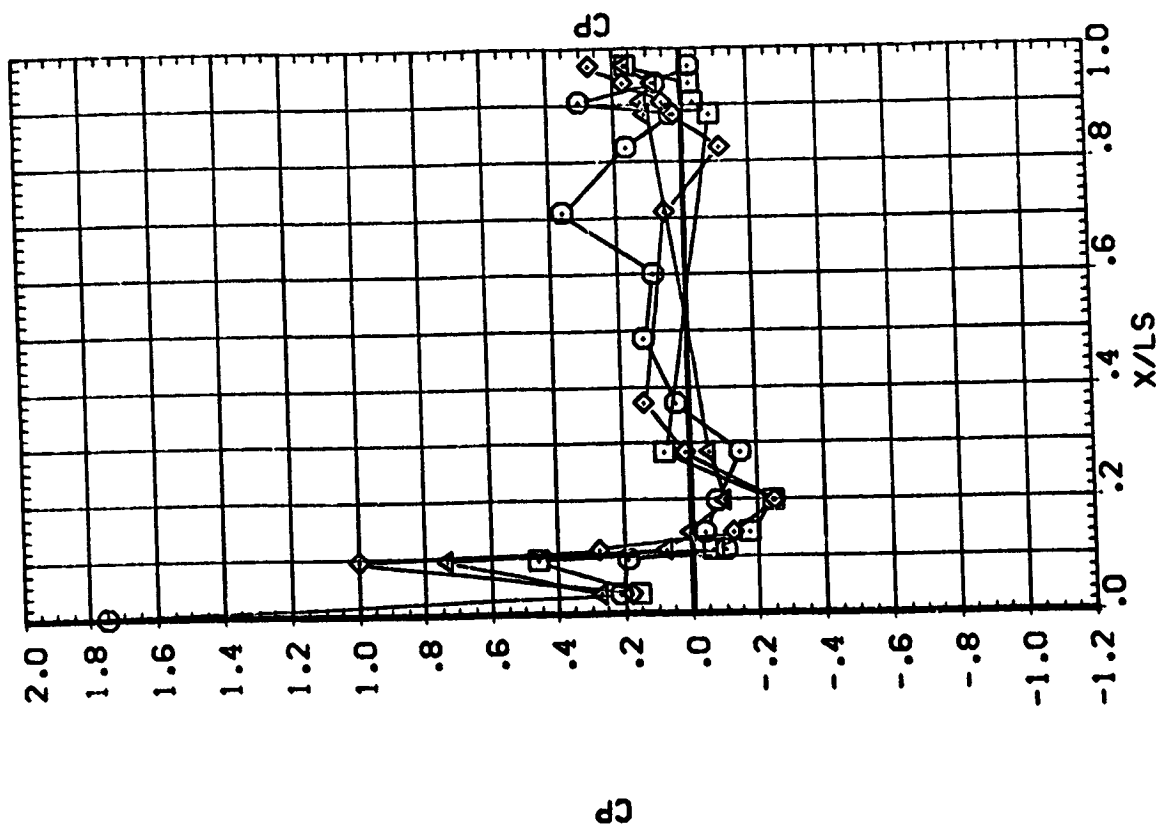
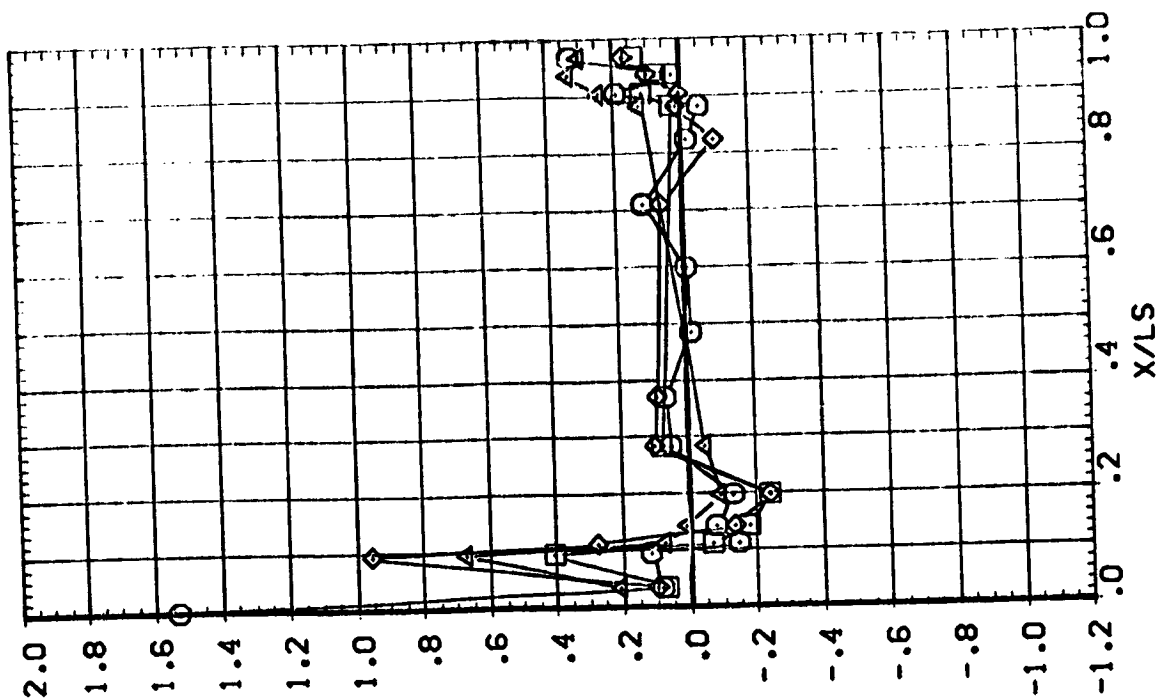
AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

SYMBOL
 ○
 ◇
 △

PHI
 180.000
 225.000
 270.000
 315.000

BETAT MACH
 -6.240 2.000
 3.950

PARAMETRIC VALUES
 ALPHAT 4.000 .500
 RUDDER .000 .000
 RUDDFLR .000 .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

III

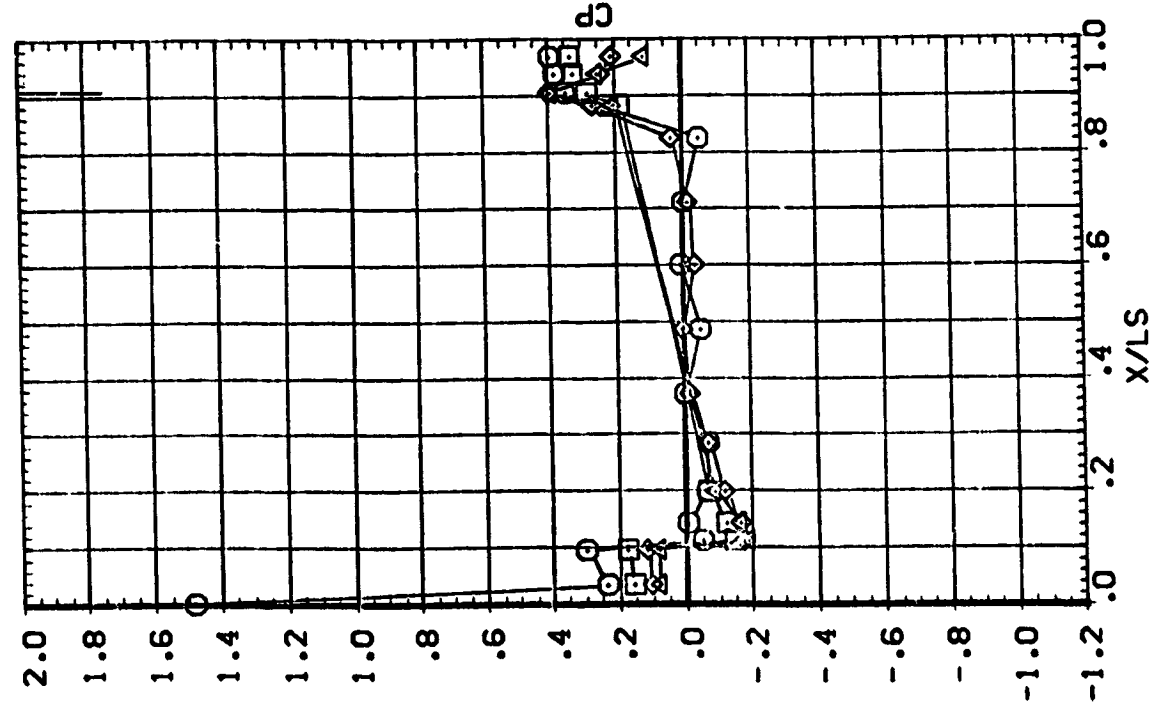
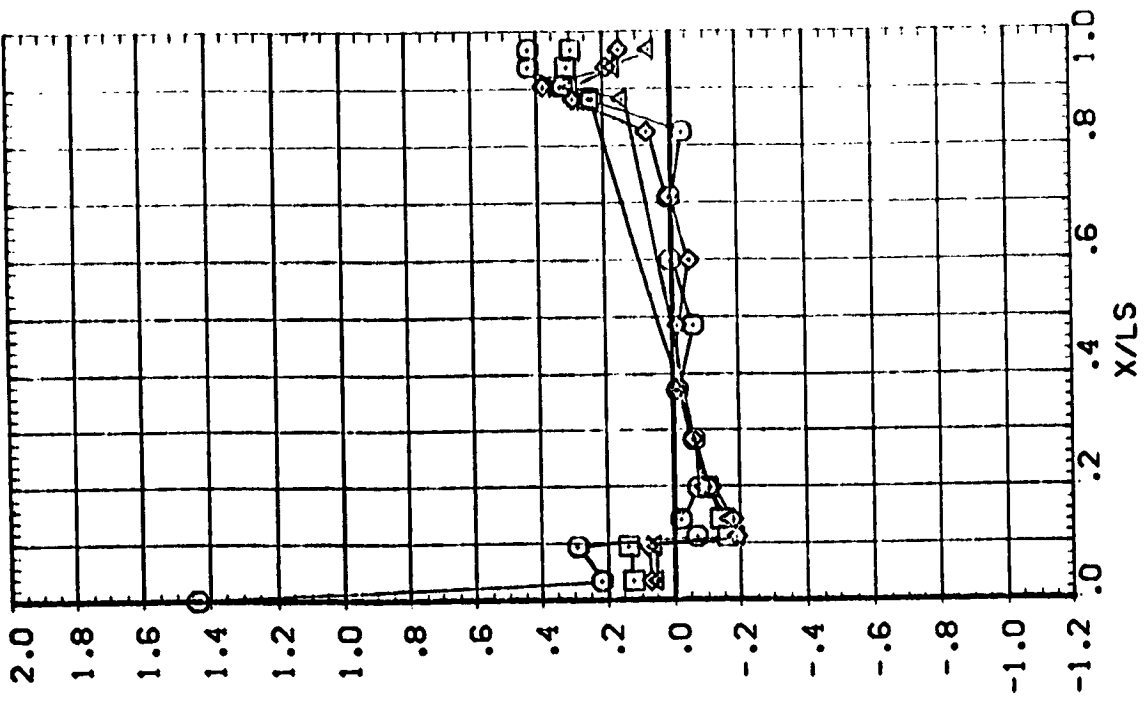
AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

(RB0504)

PARAMETRIC VALUES
 ALPHAT 4.000 SRBINC .500
 RUDDER .000 ELEVON .000
 RUOFLR .000

PHI .000 MACH 2.000
 45.000 5.990
 90.000 8.030
 135.000

SYMBOL
 ○ □ ◇ △



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

(RB0504)

SYMBOL
 ○ □ ◇ △

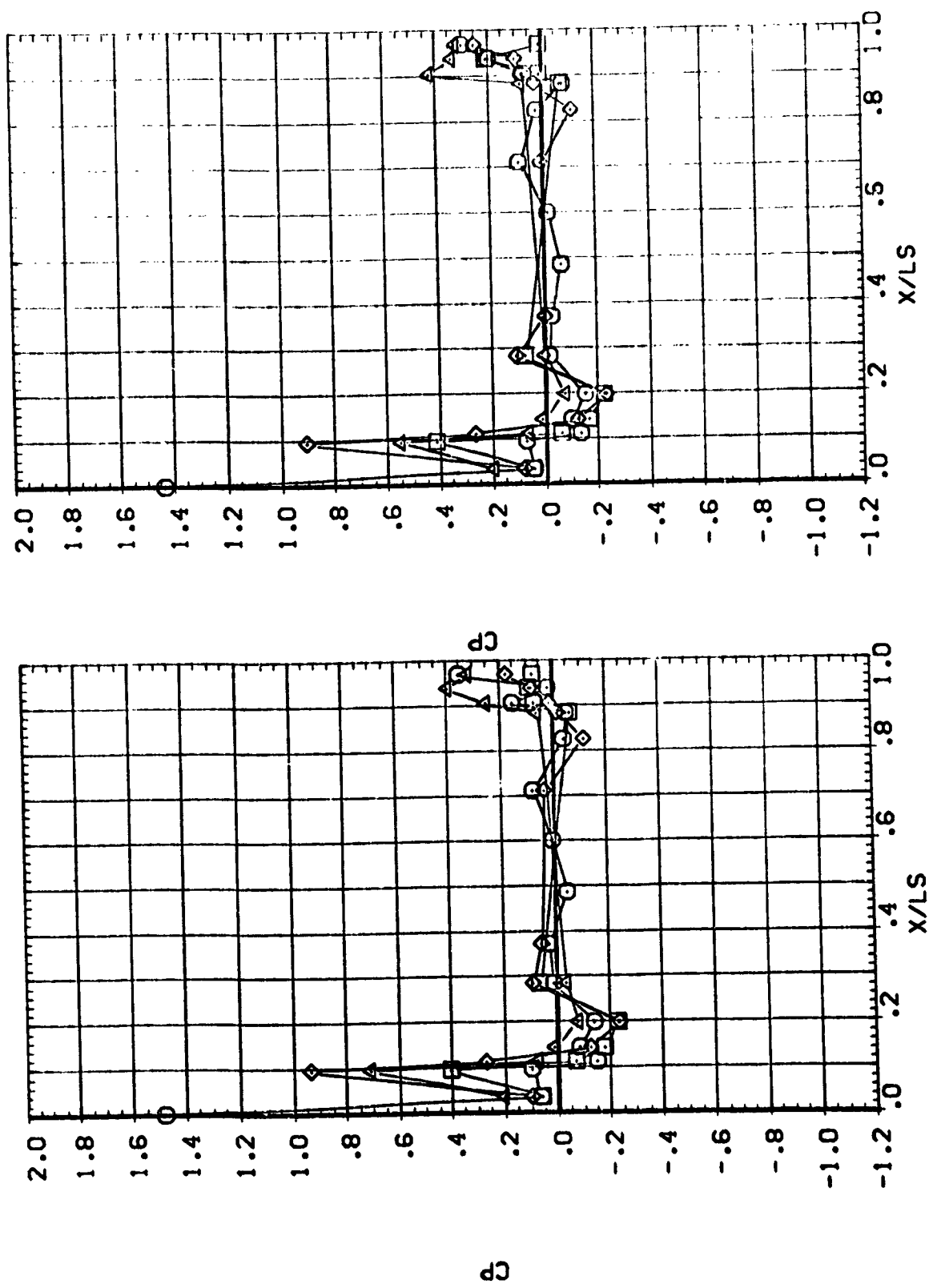
PHI 180.000
 225.000
 270.000
 315.000

BETAT 5.990
 8.030

MACH 2.000

ALPHAT
 RUDDER
 RUDDLR

PARAMETRIC VALUES
 4.000 599.10
 .000 0.000
 .000 .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

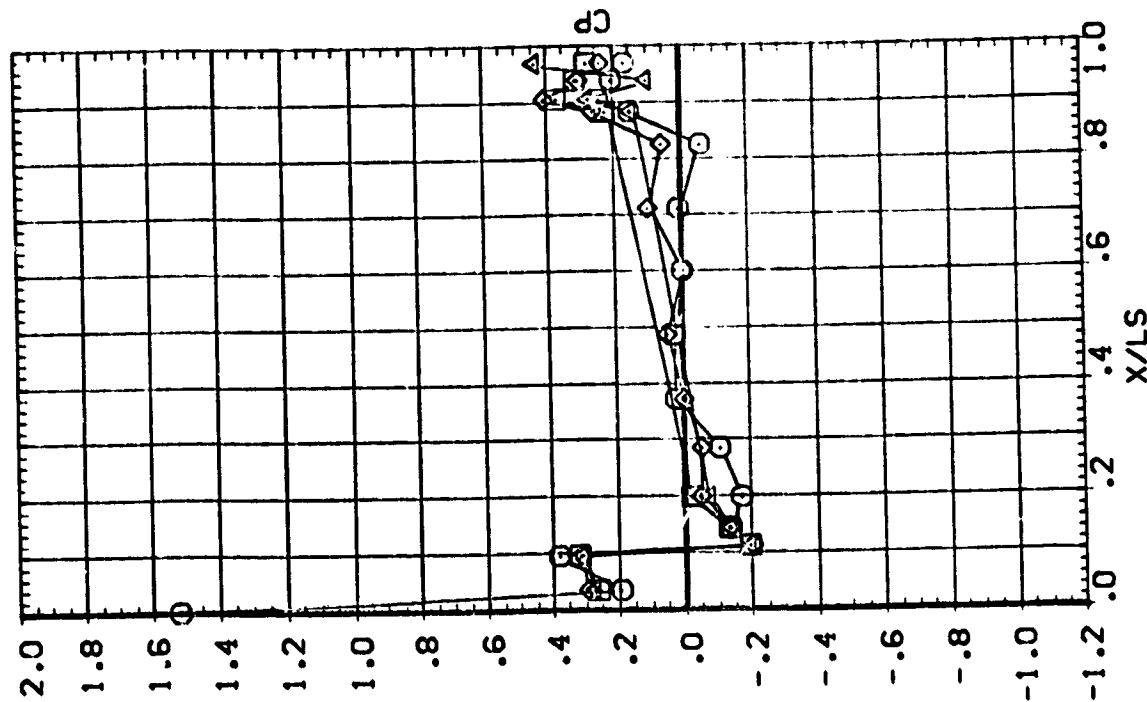
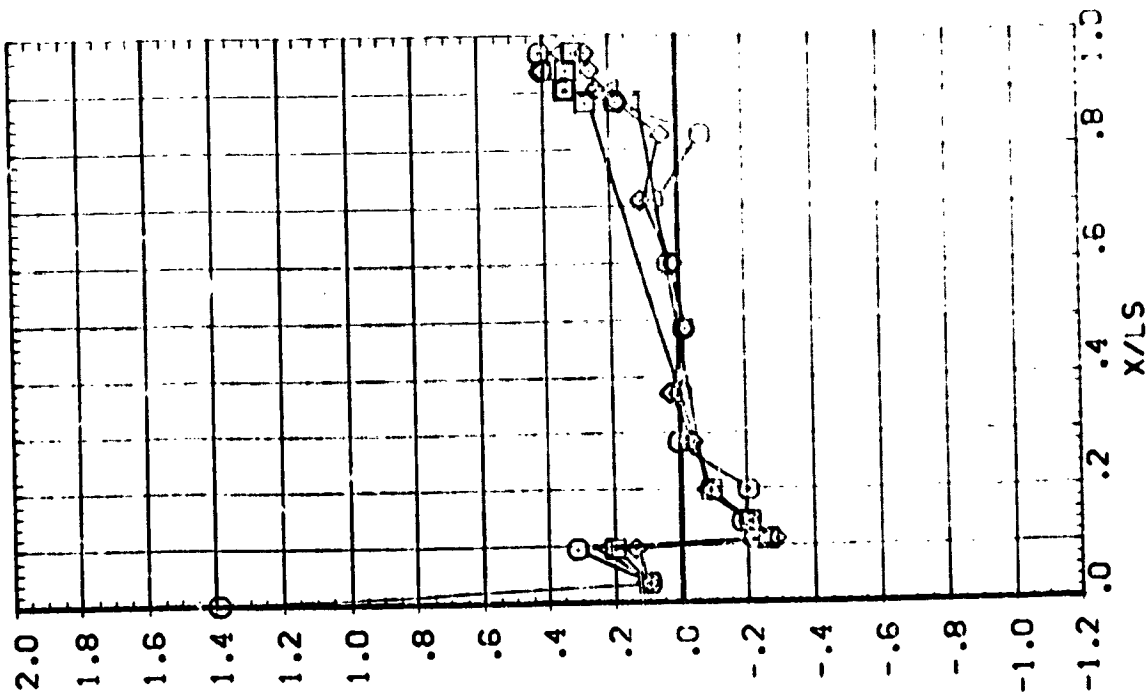
(RBCS06)

PARAMETRIC VALUES
ALPHA² .000 DR3INC .500
R00SER .000 ELEVON .000
R00SER .000

SYMBOL
□ 45.000
◇ 90.000
△ 135.000

BETAT MACH
-5.080 1.555
5.050

PHI
.000
45.000
90.000
135.000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

000000

Symbol ○ □ ◇ △

PHI
180.000
225.000
270.000
315.000

BETAT MACH
-5.080 1.555
5.050

SSS !
H3VM

5.052

H3Vh

PHI
180.000
225.000
270.000
315.000

225.000

270.0000

315.000

三、

5

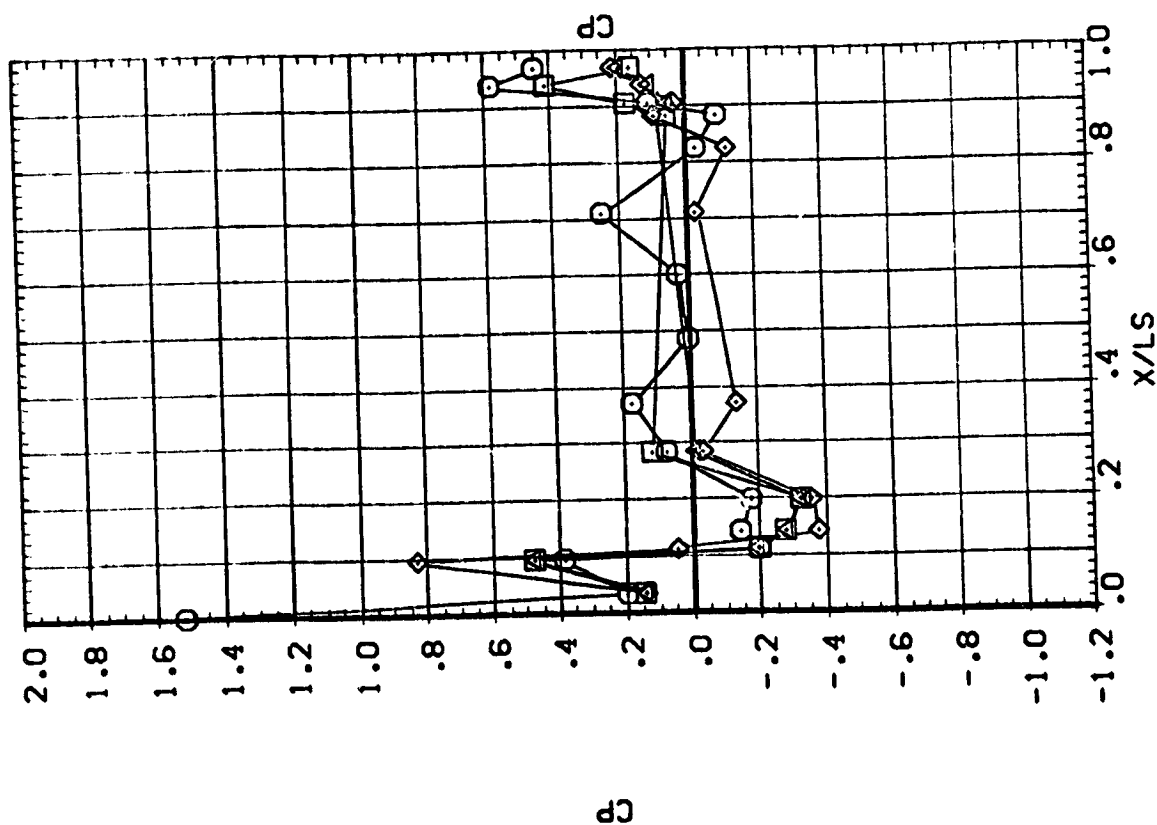
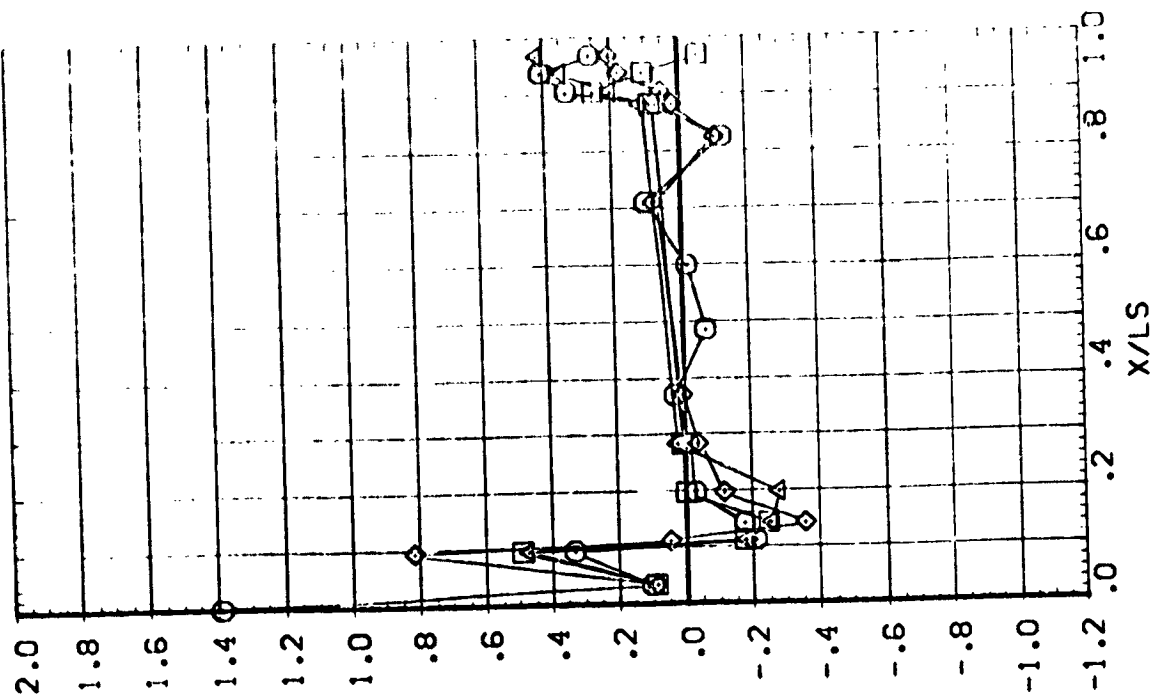
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SECRET - NOFORN

119
26
83

25

100



AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER (RB0506)

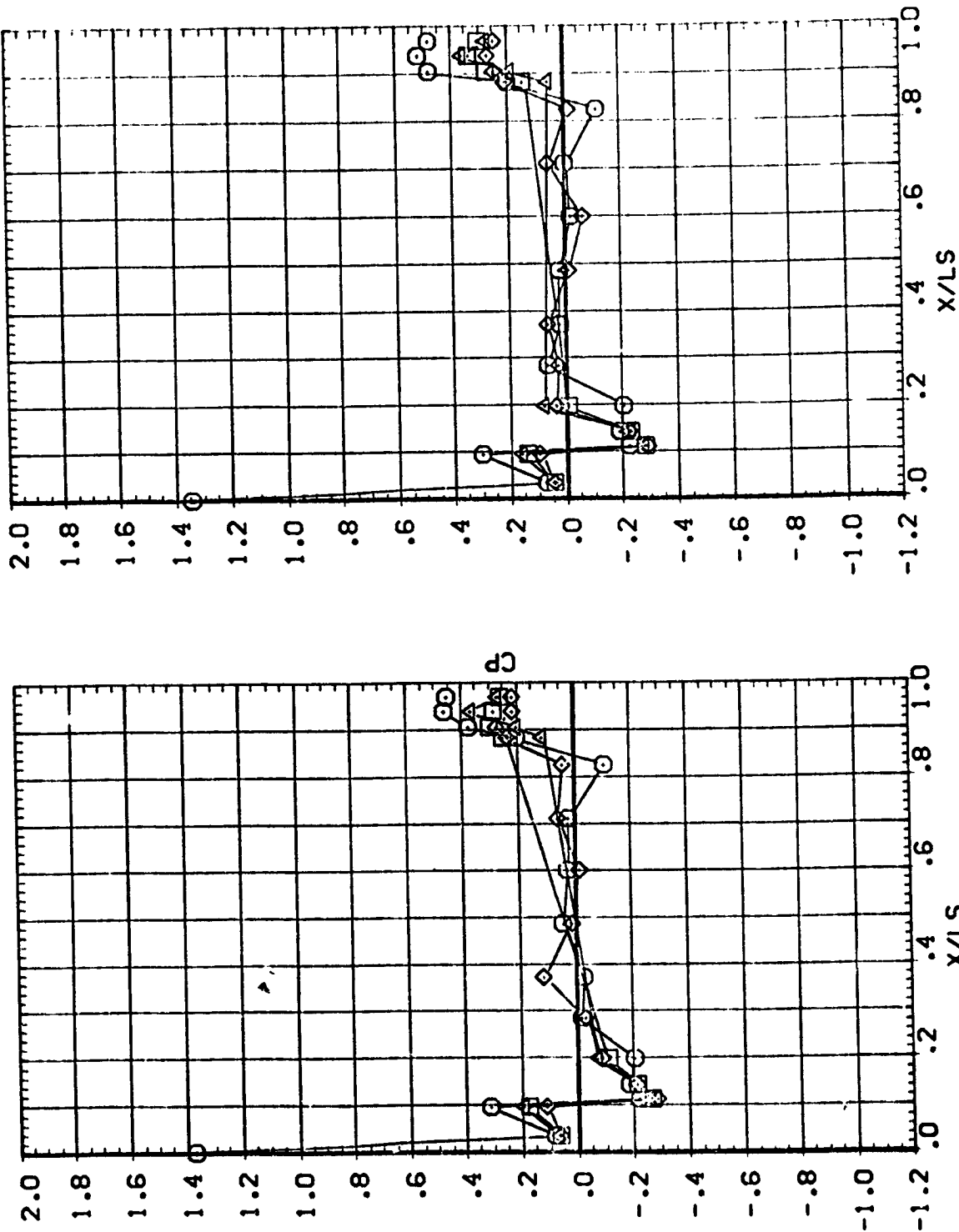
SYMBOL
 ○ □ ◇ △

PHI .000
 45.000
 90.000
 135.000

BETAT 7.060
 9.090

MACH 1.555

PARAMETRIC VALUES
 ALPHAT .000 ORBINC .500
 RUDDER .000 ELEVON .000
 RUOFLR .000



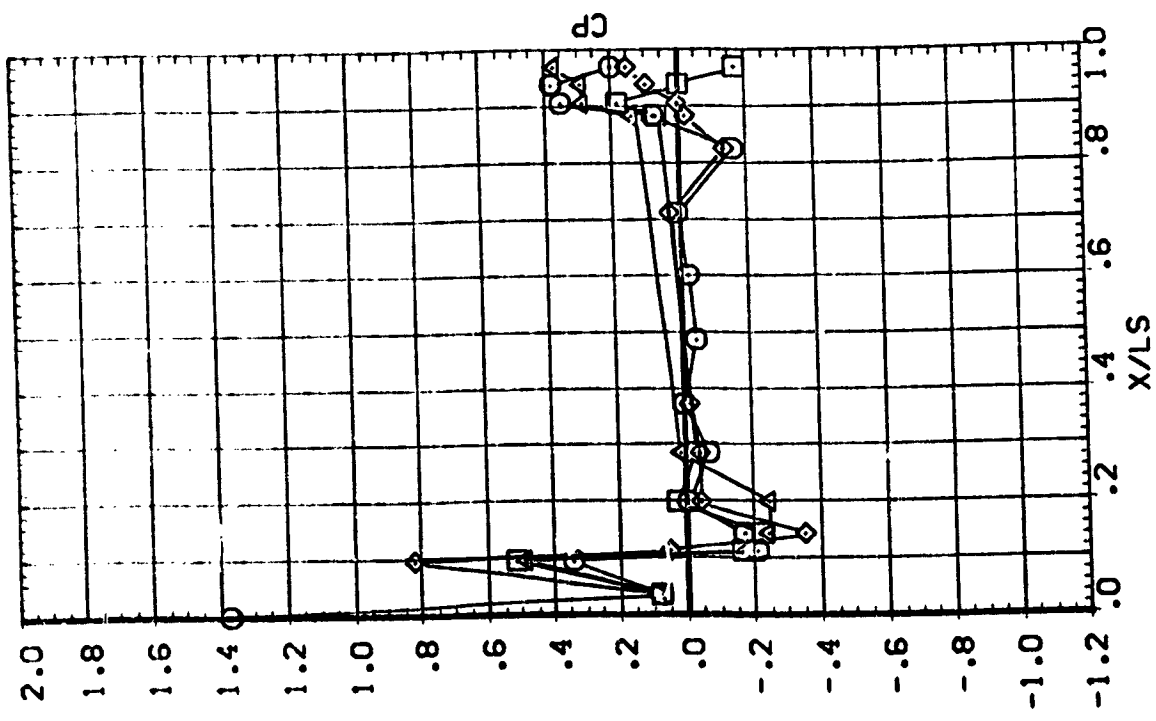
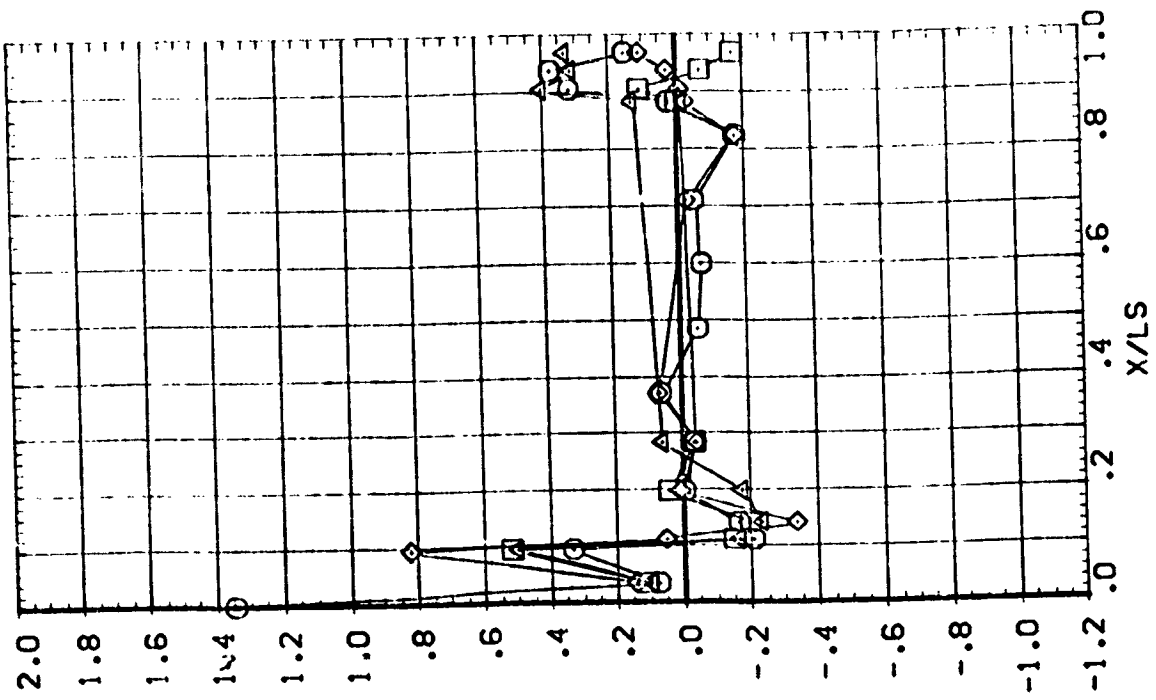
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

000000

000000

000000
270.000
315.000

000000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

(R80S06)

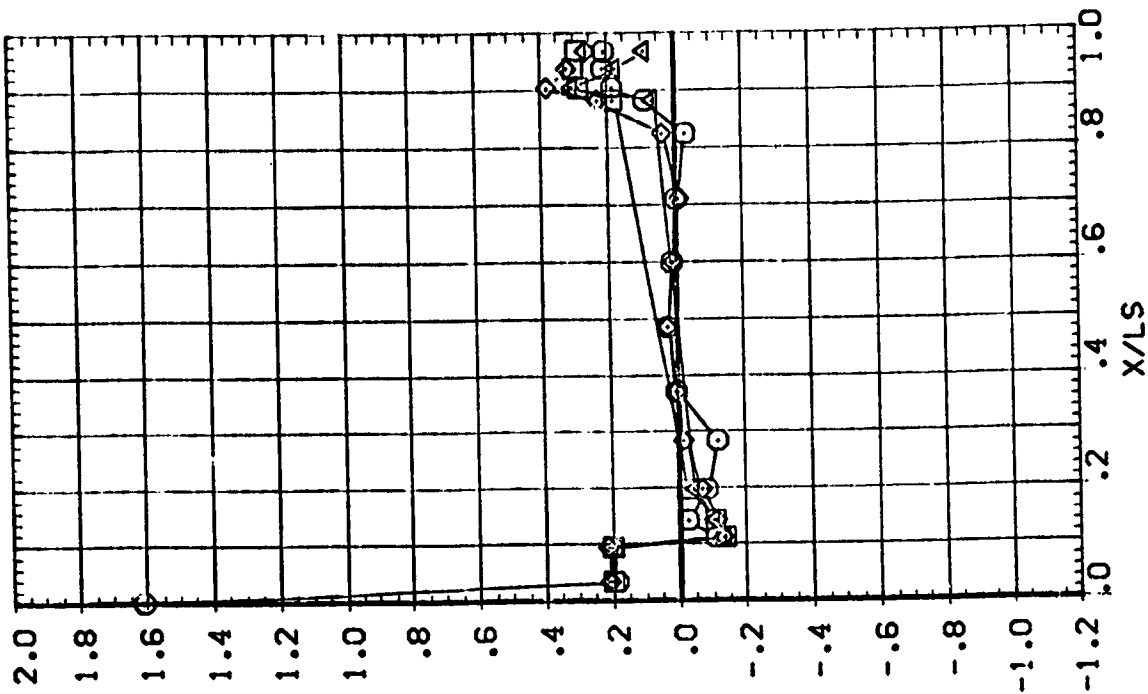
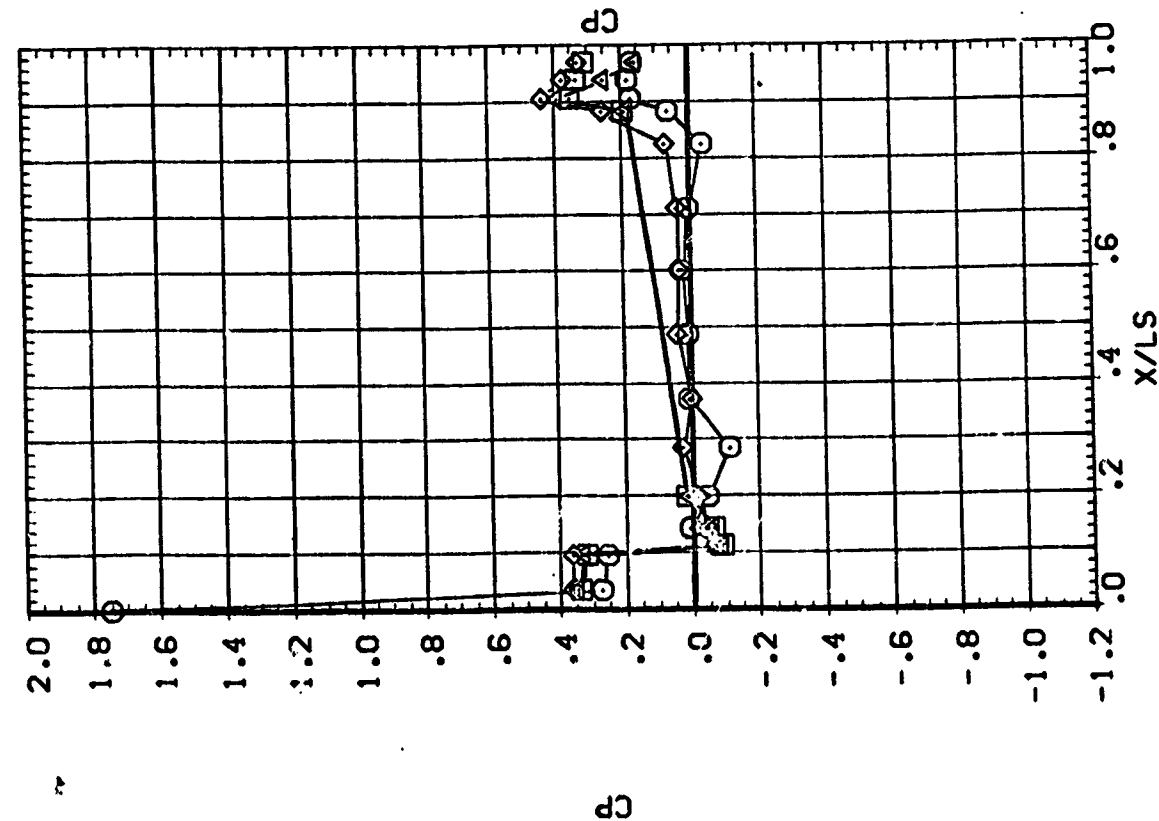
SYMBOL
 ○ □ ◇ △

PHI
 .000
 45.000
 90.000
 135.000

BETAT
 -6.250
 -.130

MACH
 2.000

PARAMETRIC VALUES
 ALPHAT .000 CRBINC .500
 RUDDER .000 ELEVON .000
 RUJFLR .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

SYMBOL

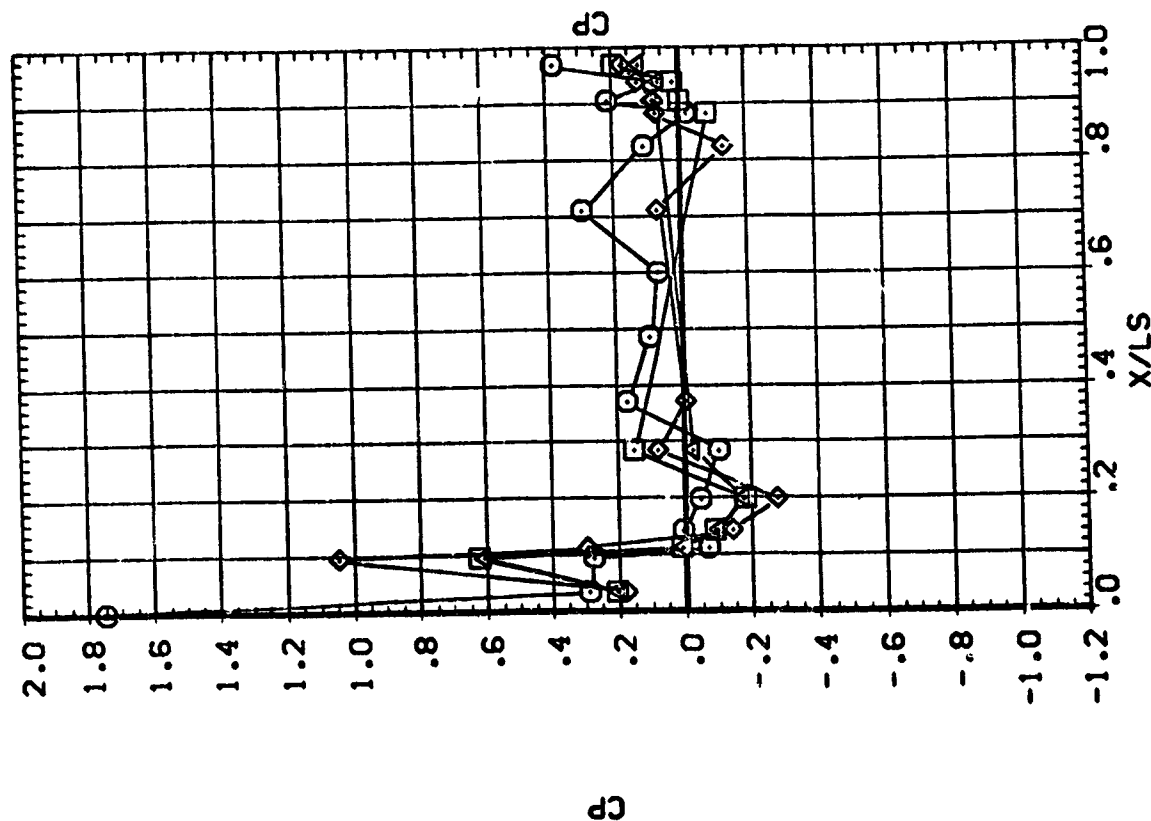
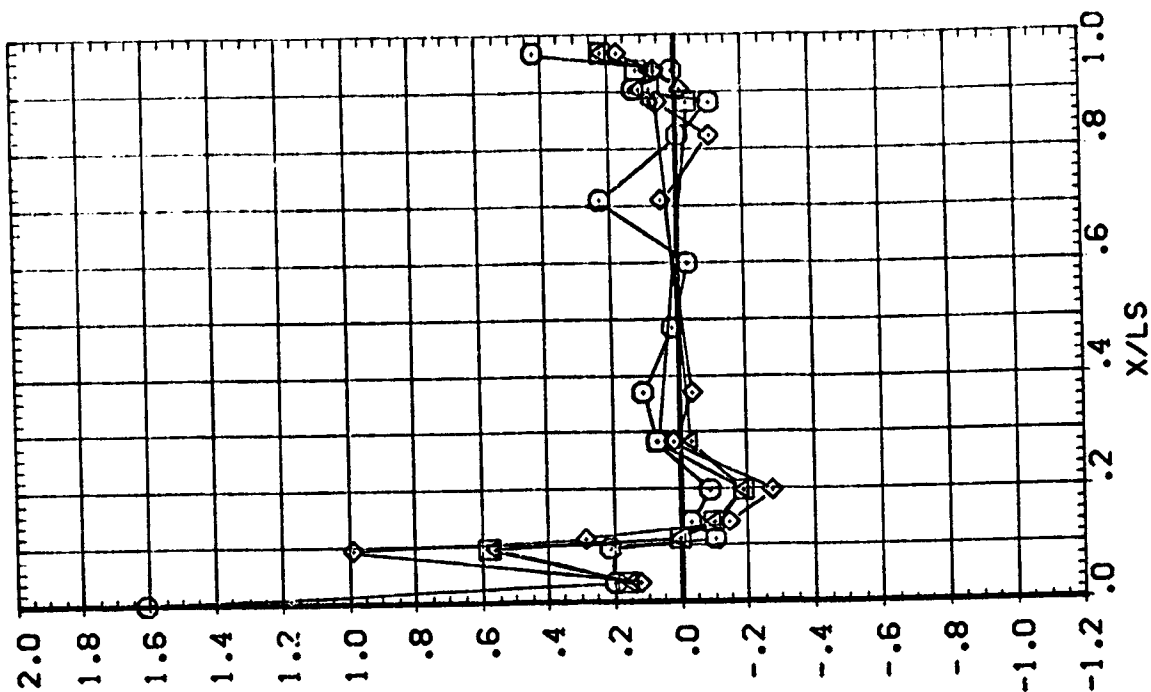
PHI
180.000
225.000
270.000
315.000

BETAT
-6.250
-.130

MACH
2.000

ALPHAT
RUOOR
RUOFLR

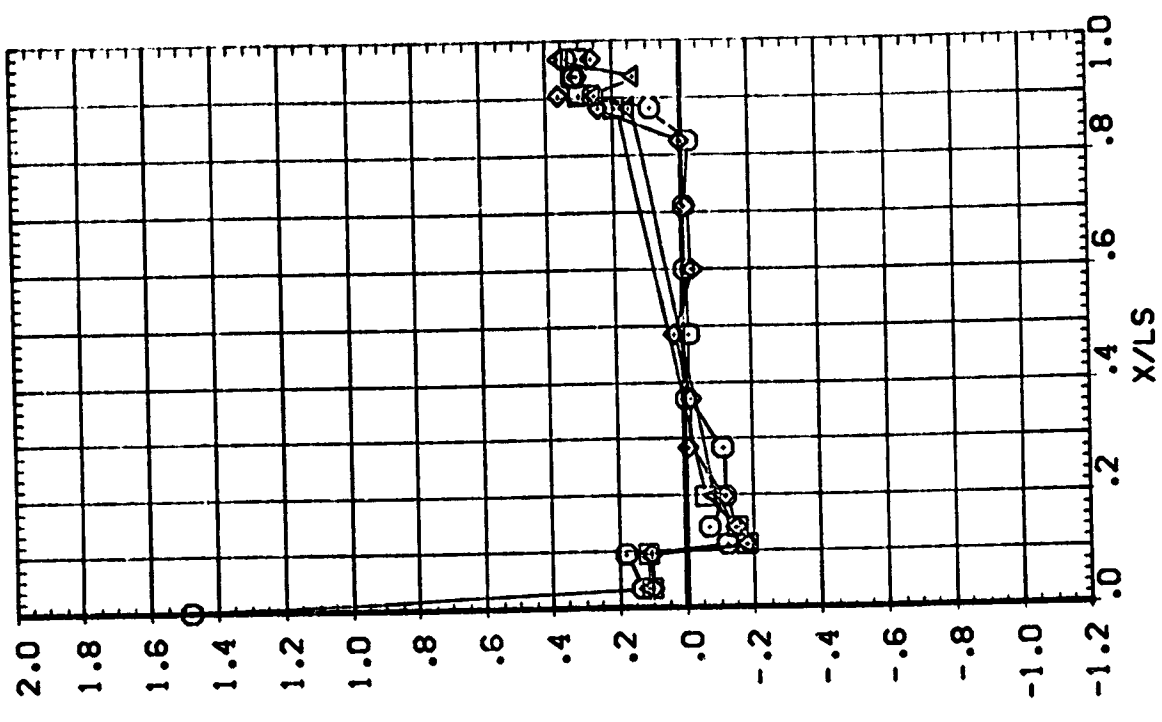
PARAMETRIC VALUES
.000 .000 .000
SRBINC ELEVON
.500 .000



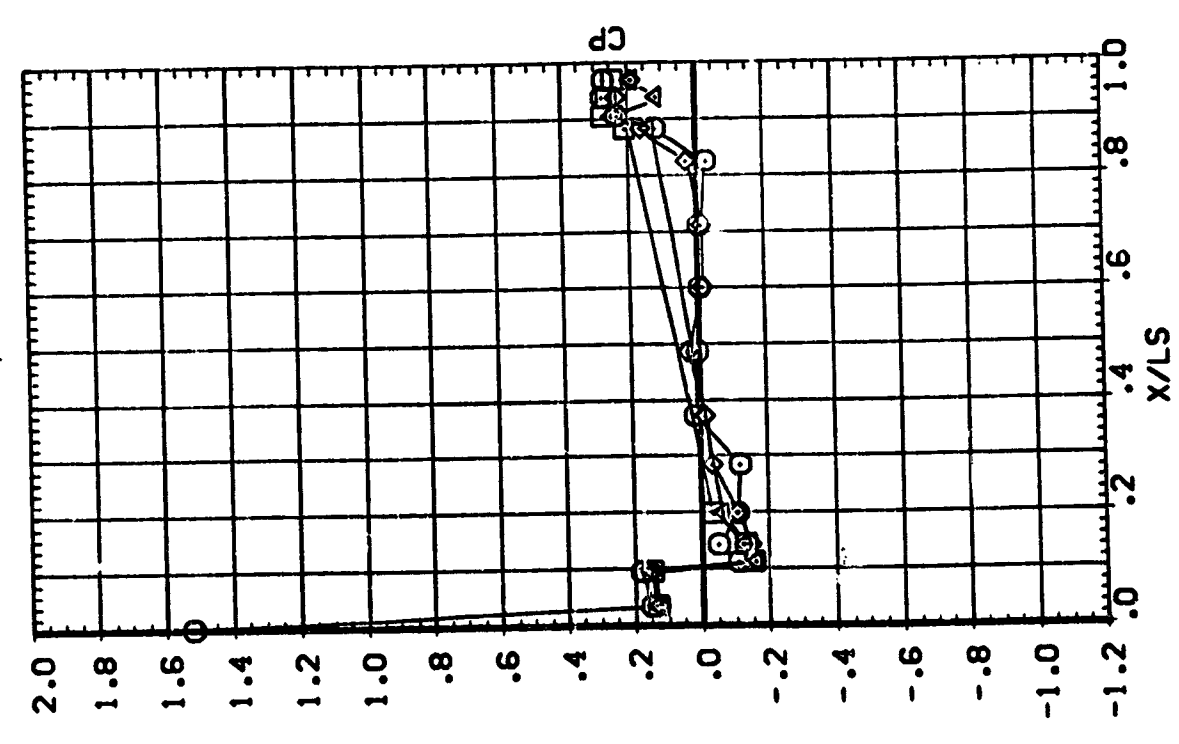
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

REF ID: A66001

PARAMETRIC VALUES
 ALPHAT .000 ORBINC .500
 RDOER .000 ELEVON .000
 RDOFLR .000



PHI .000 BETA1 3.950 MACH 2.000
 45.000 5.980
 90.000
 135.000



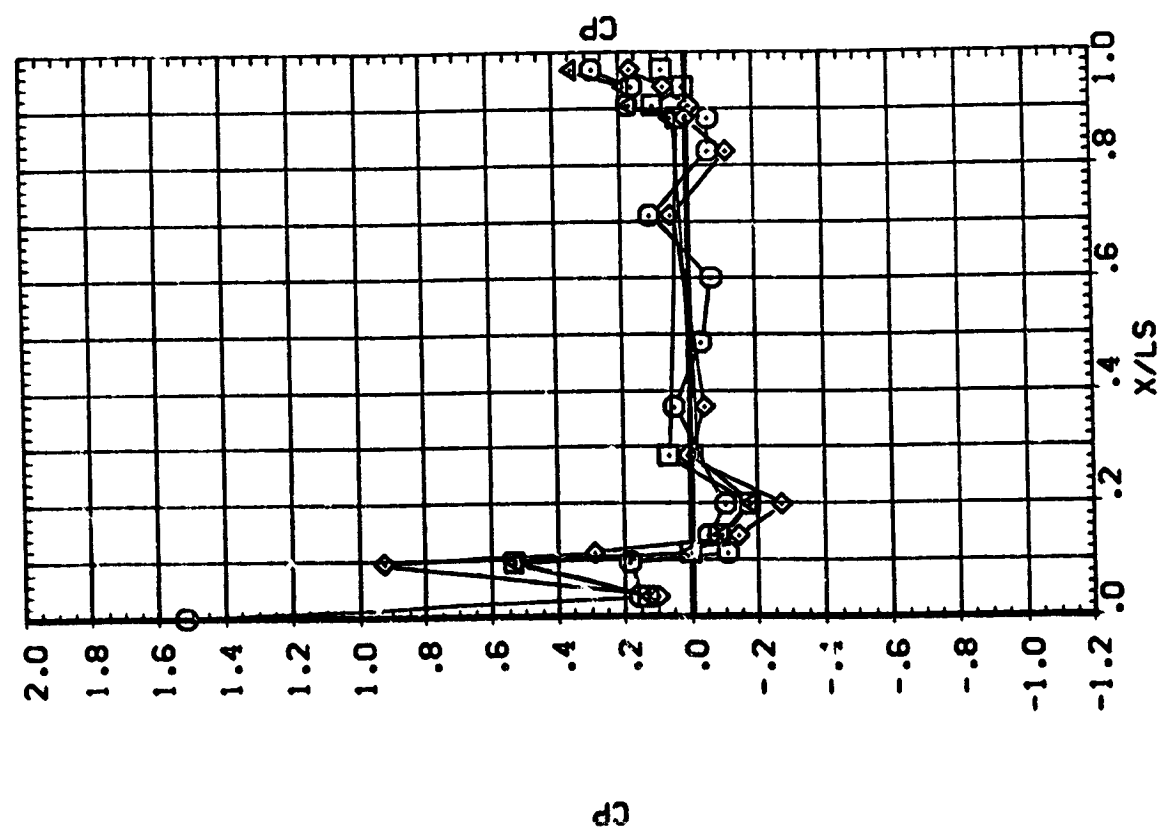
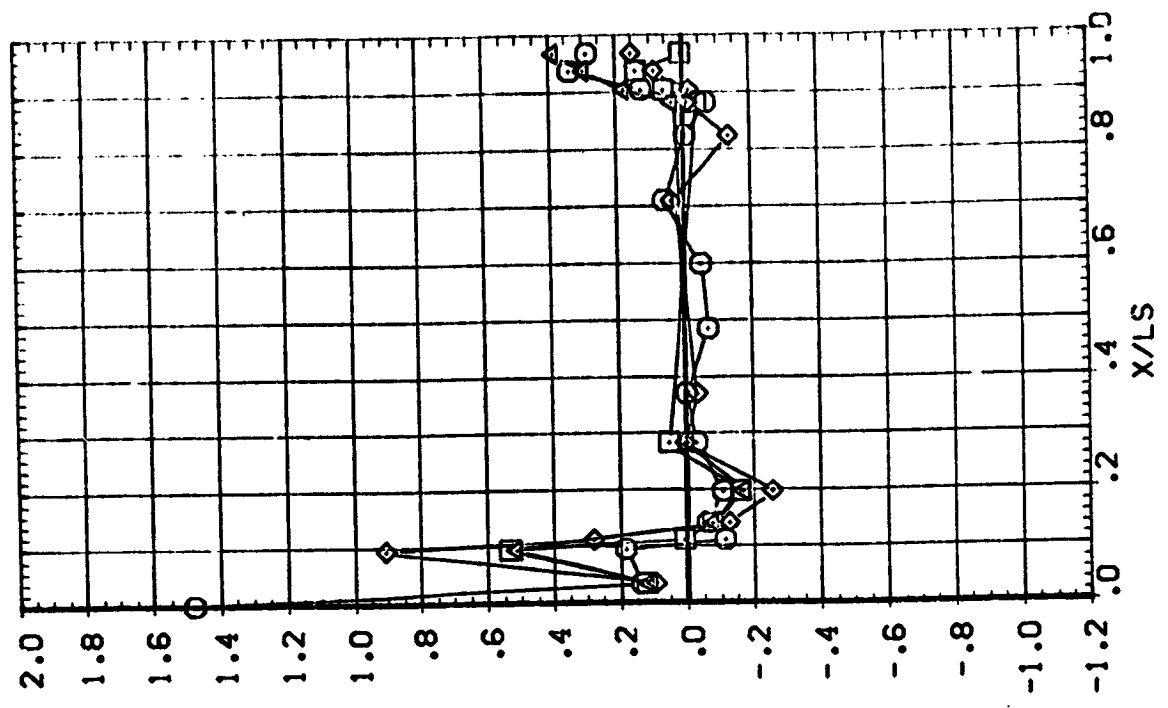
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

(RB0506)

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

PARAMETRIC VALUES
ALPHAT .000
RUDER .000
RUDFLR .000
C99INC .500
ELEVEN .000

PHI 180.000
225.000
270.000
315.000
ESTAT 3.950
5.990
MACH 2.000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

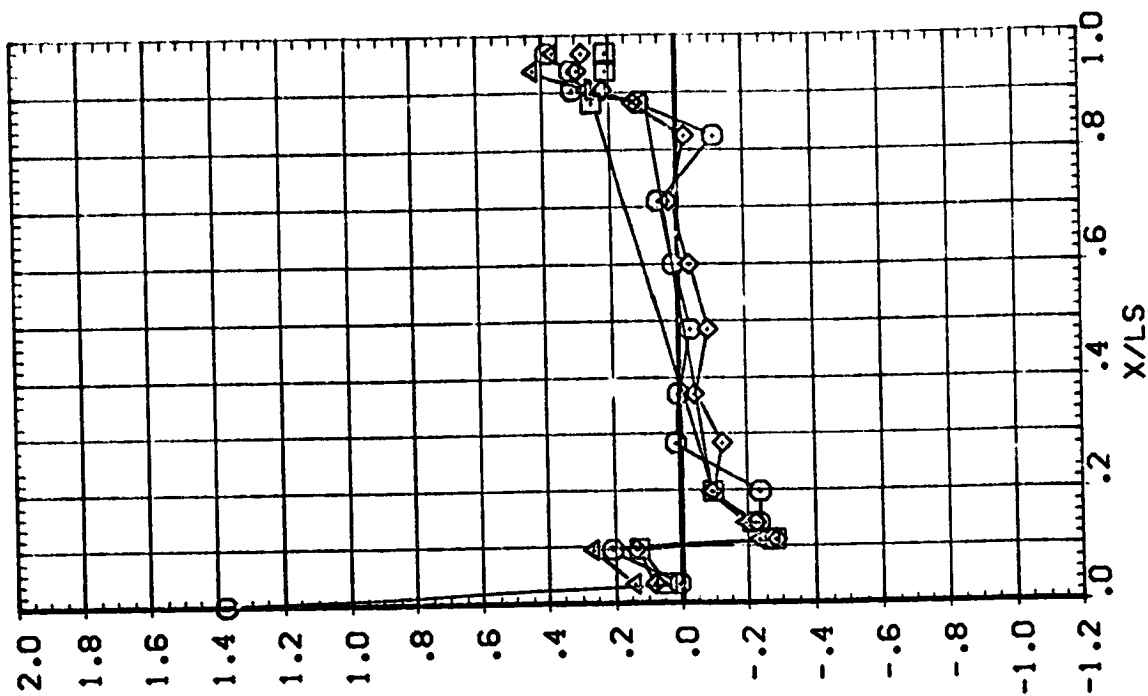
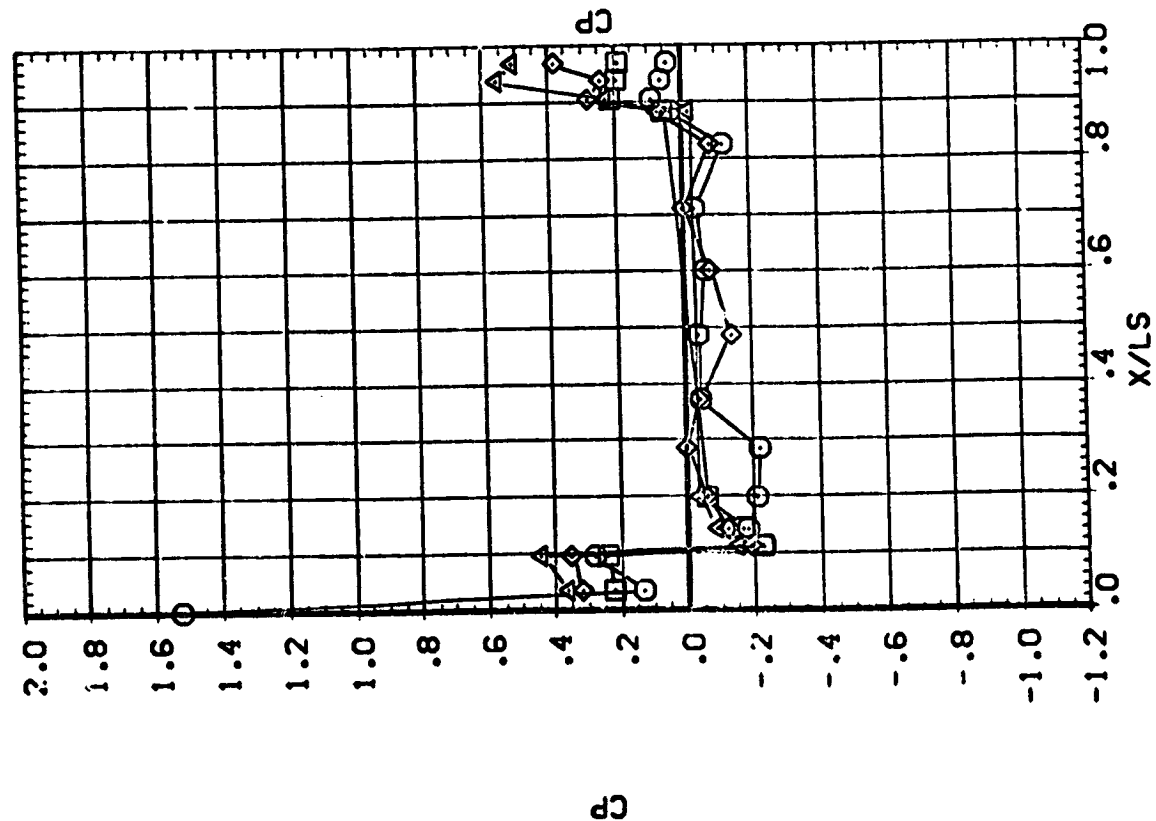
(RB0S08)

SYMBOL
 ○ □ ◇ △

PHI
 .000
 45.000
 90.000
 135.000

BETAT MACH
 -6.150 1.555
 5.030

PARAMETRIC VALUES
 ALPHAT -4.000 ORBINC .500
 RJOER .000 ELEVON .000
 RJOFLR .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

(R80S08)

SYMBOL
 ○
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 ◇
 △

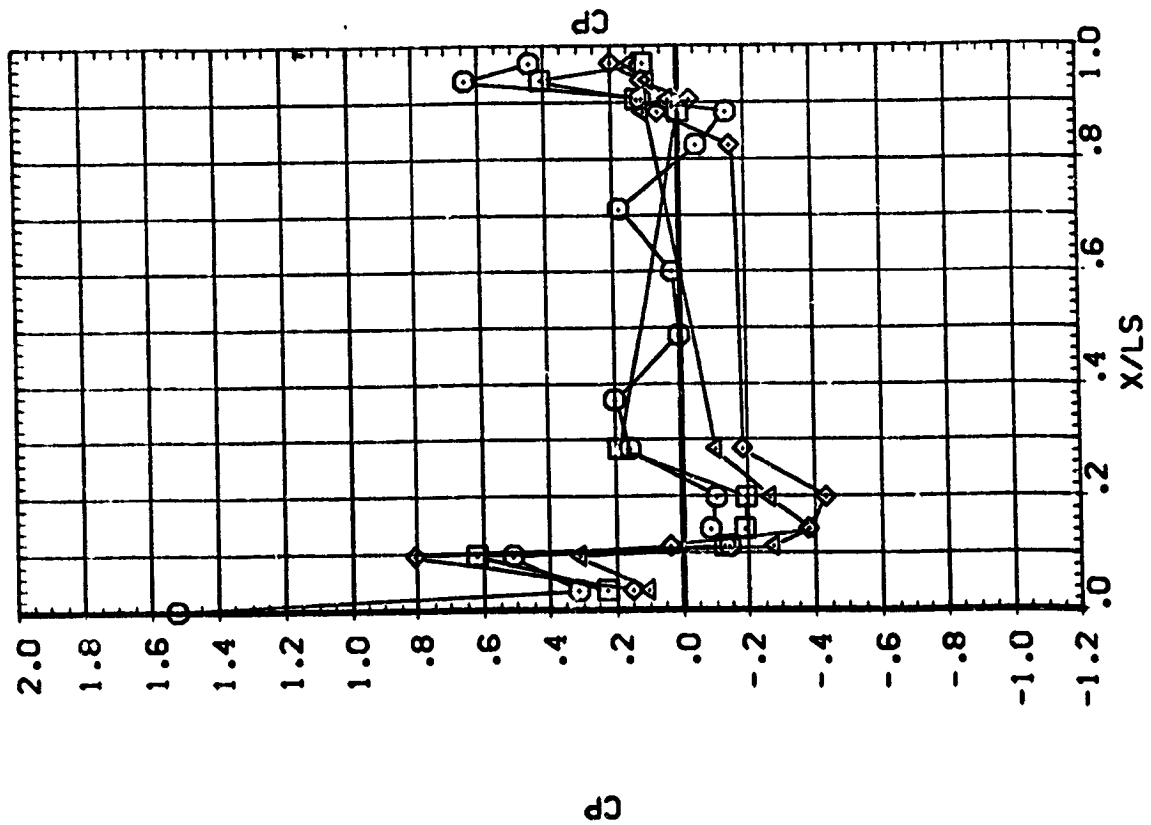
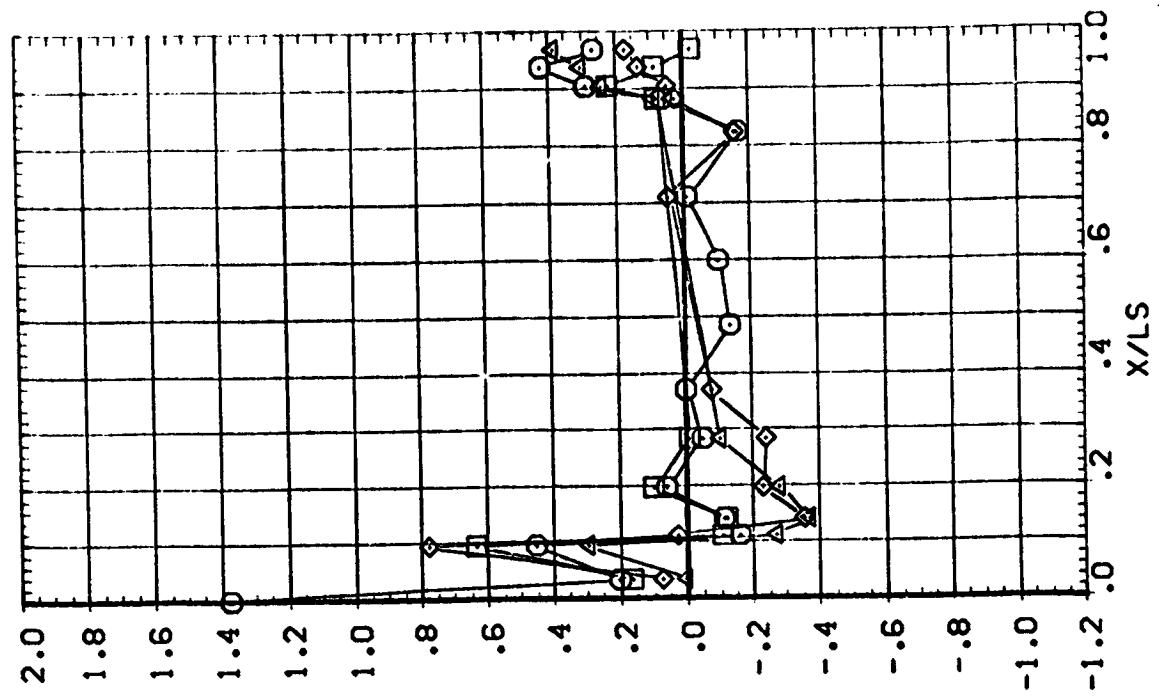
PHI 180.000
 225.000
 270.000
 315.000

BETAT -6.150
 5.030

MACH 1.555

PARAMETRIC VALUES
 ALPHAT
 RJOER
 RJOFLR

-4.000
 .000
 .000
 .500
 .000
 .000

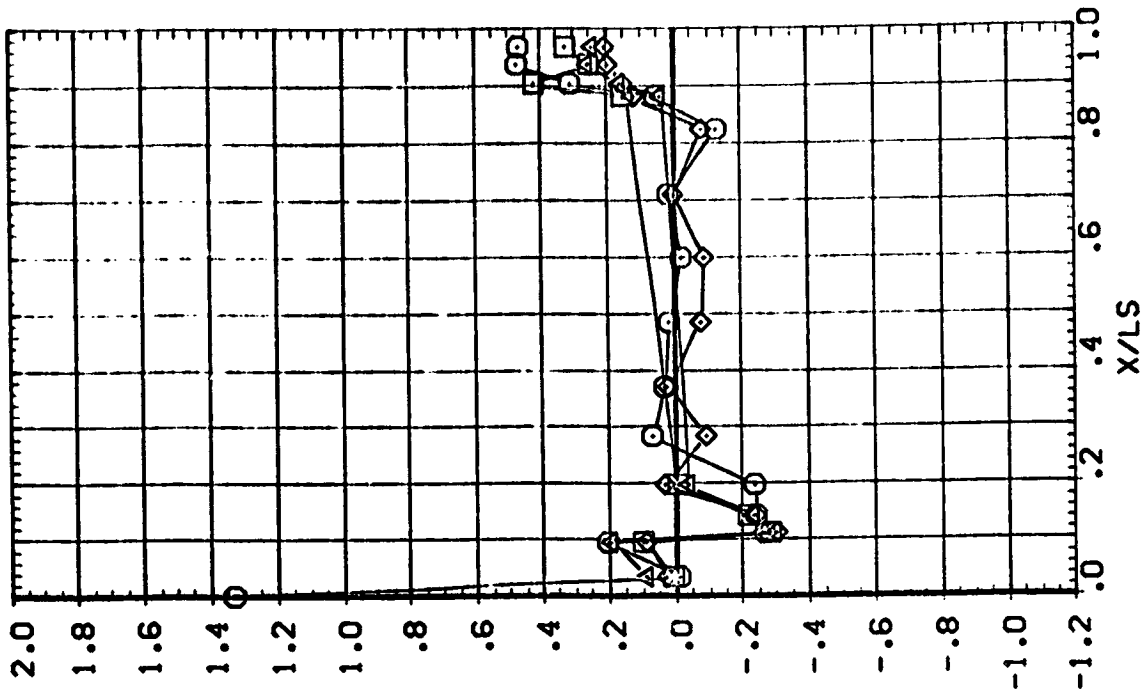
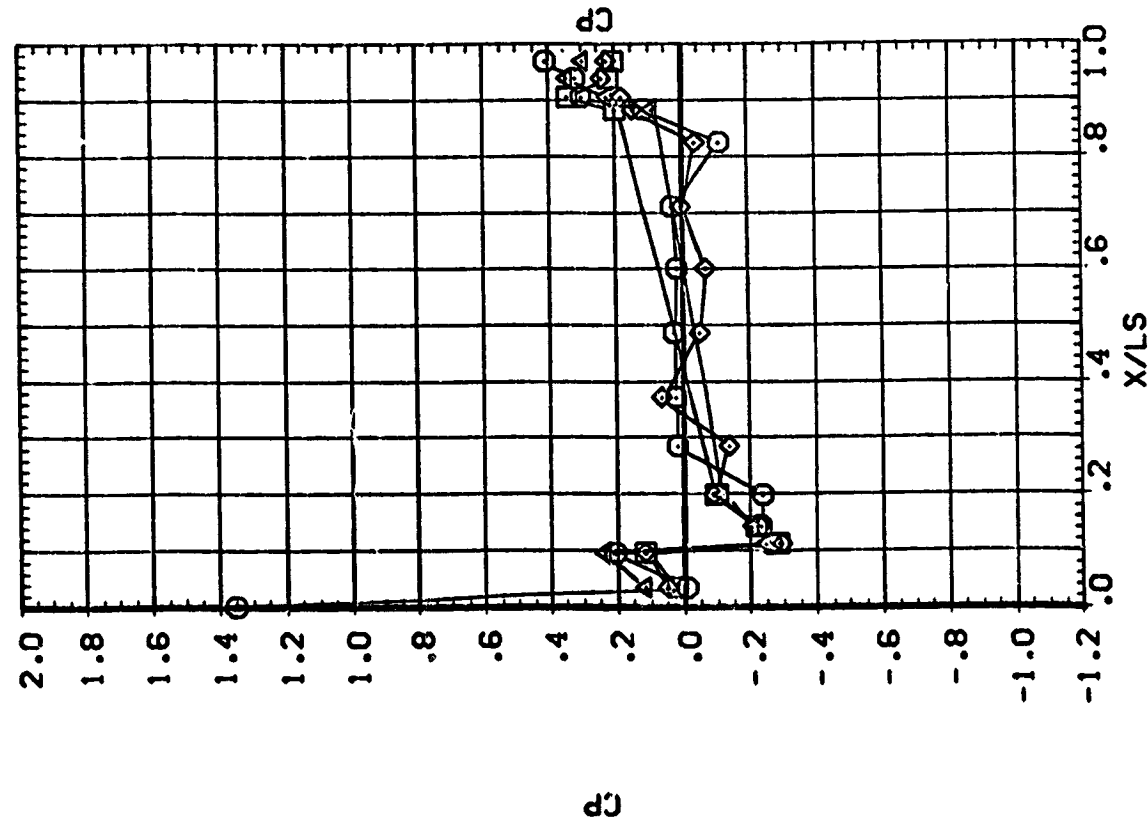


LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

SYMBOL
○ □ ◇ △

PHI BETAT MACH
.000 7.050 1.555
45.000 9.070
90.000
135.000

PARAMETRIC VALUES
ALPHAT -4.000 CRBINC .500
RUDDER .000 ELEVON .000
RUDDLR .000



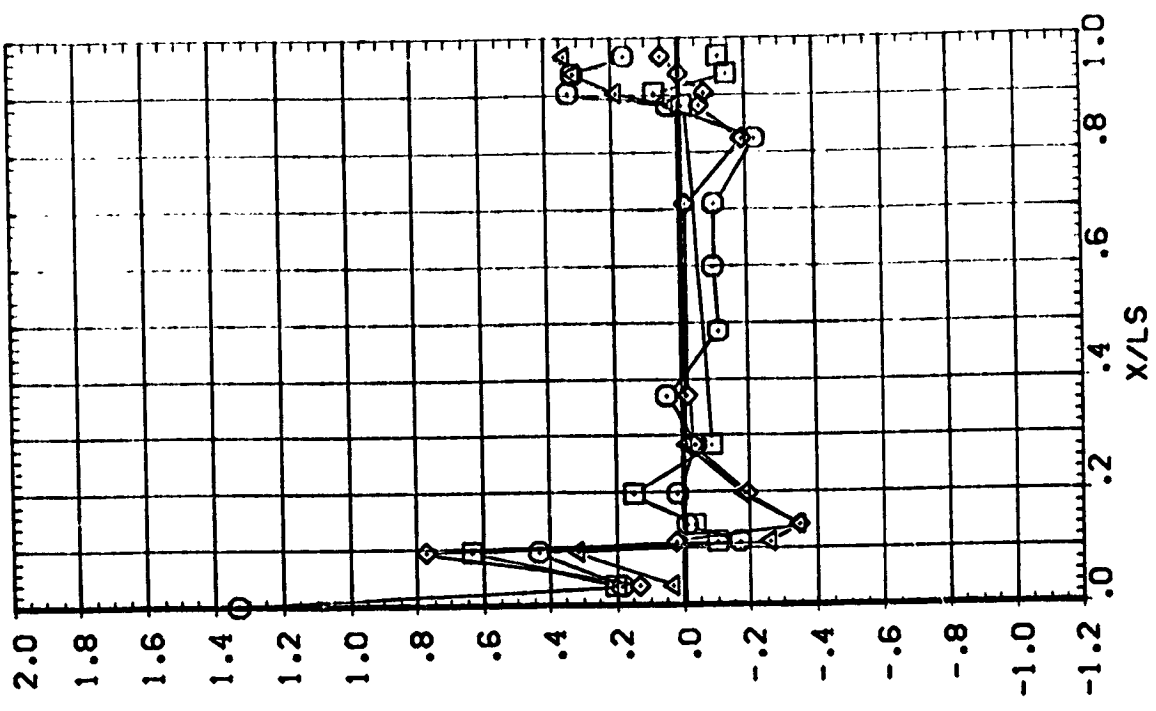
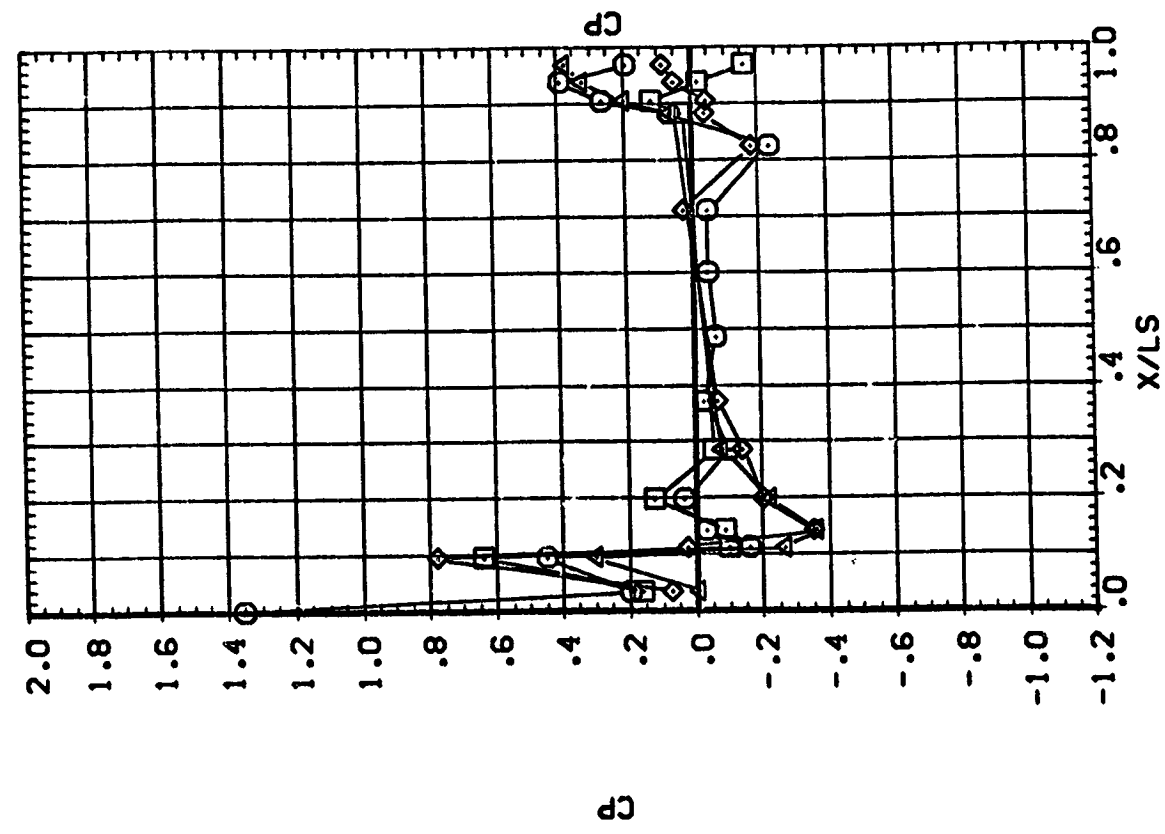
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

PH1 180.000
 225.000
 270.000
 315.000

BETAT 7.050
 9.070

MACH 1.555

PARAMETRIC VALUES
 ALPHAT -4.000
 MUDDER .000
 RUOFLR .000
 S991C .500
 ELEVEN .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

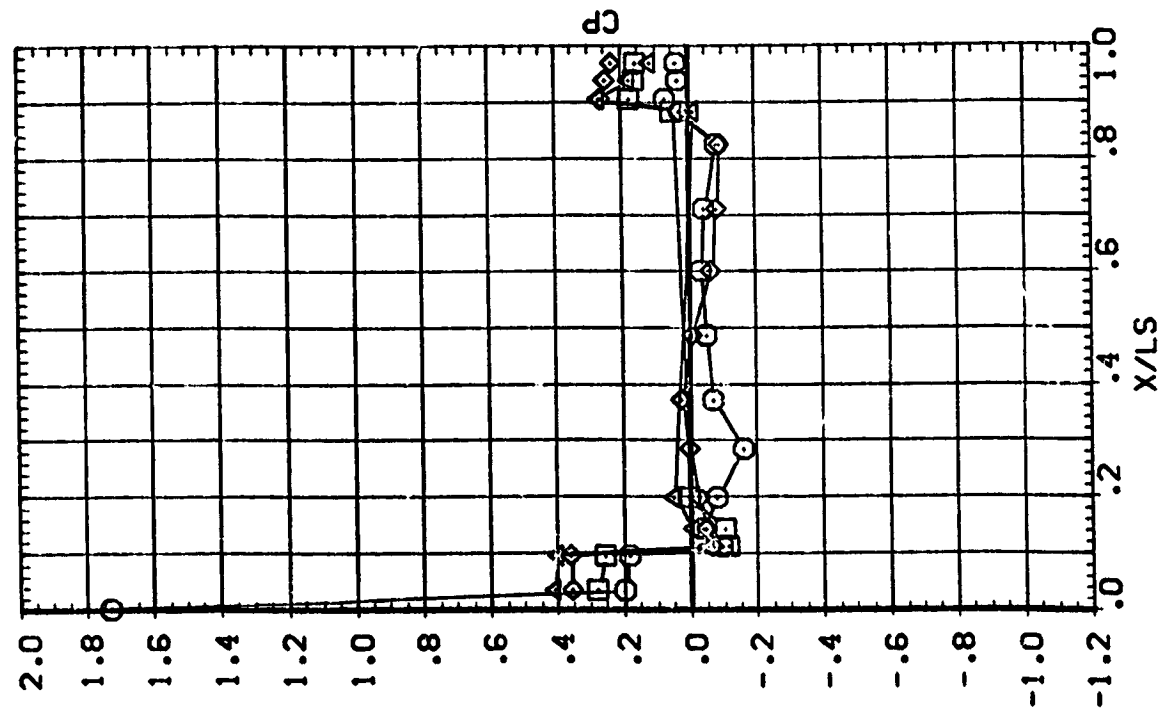
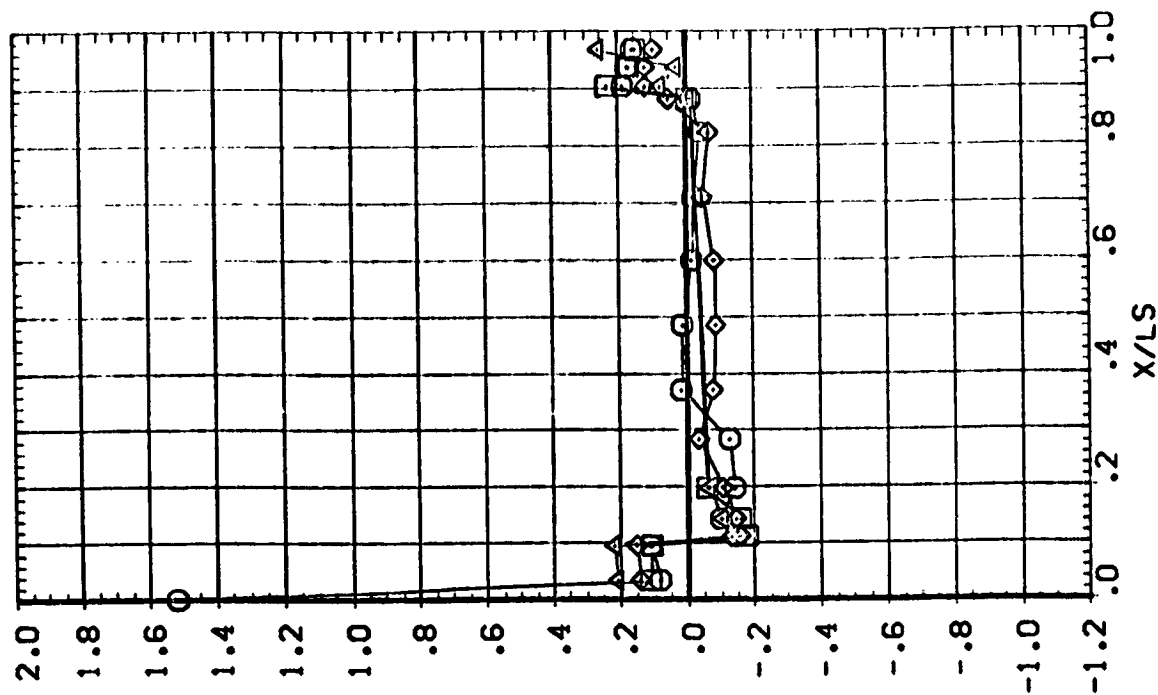
(RBCS08)

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

PARAMETRIC VALUES
 ALPHAT -4.000
 RUDDER .000
 RUJFLR .000
 .500
 .000
 .000
 .000

SYMBOL
 ○
 □
 ◇
 △

PHI .000
 45.000
 90.000
 135.000
 BETAT -6.270
 3.920
 MACH 2.000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

(RB0S08)

SYMBOL
○
□
◇
△

PHI 180.000
225.000
270.000
315.000

BETAT -6.270
3.920

MACH 2.000

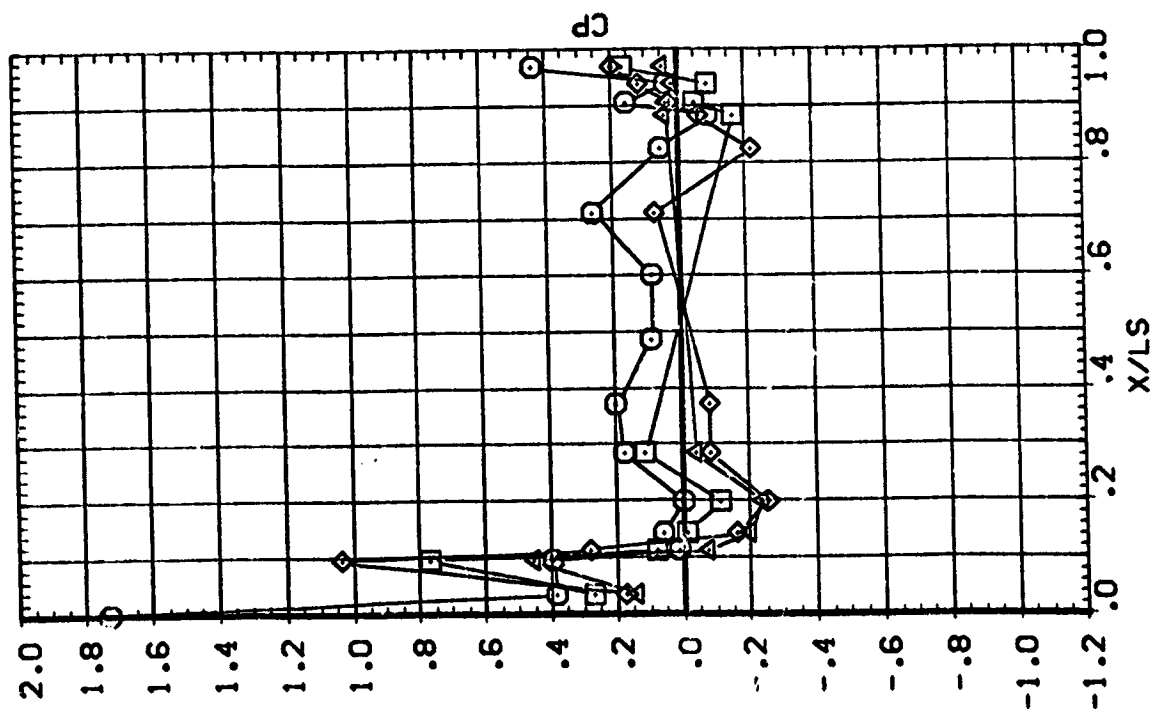
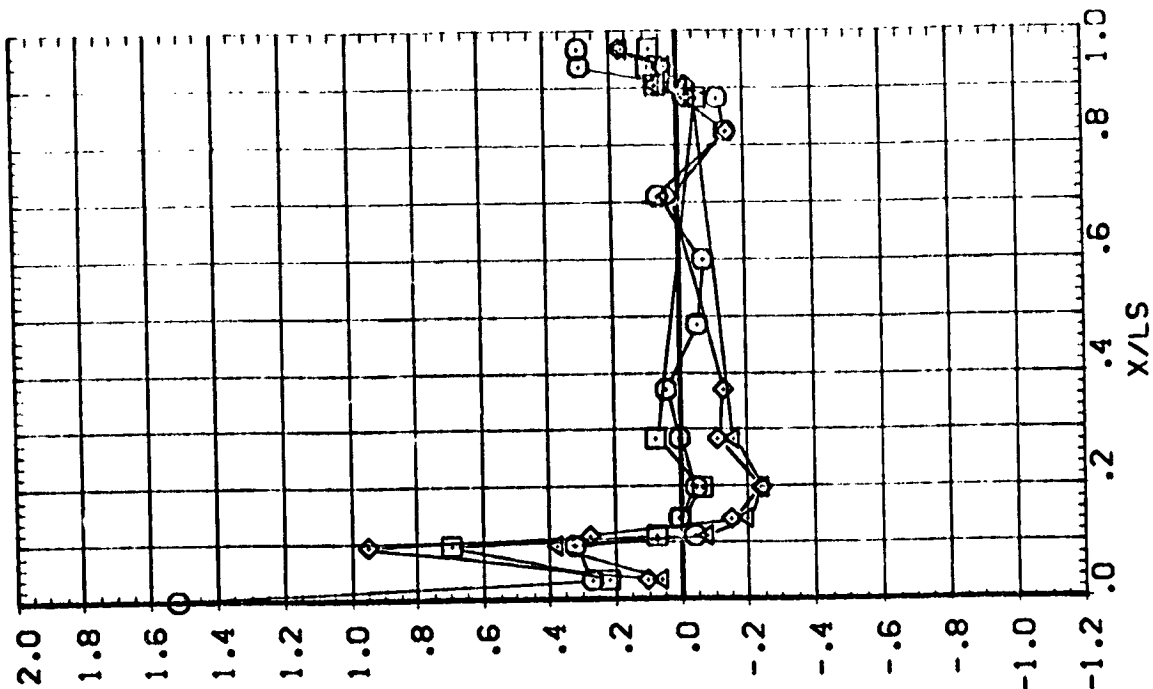
PARAMETRIC VALUES

ALPHAT
RLODER
RLOFLR

-4.000
.000
.000

SRB11C
ELEV7N

.500
.000



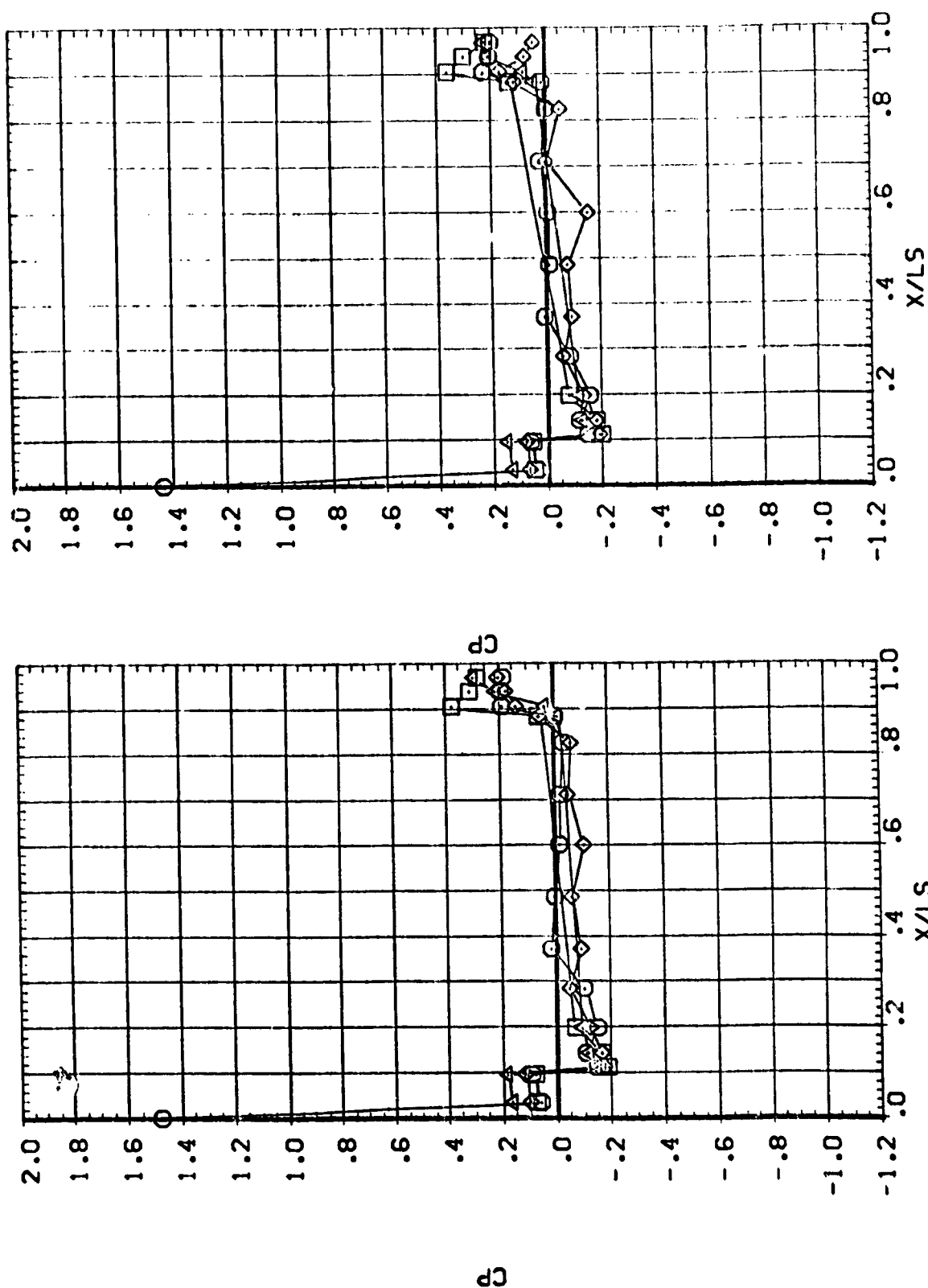
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

III

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

(RB0808)

SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES
◇	.000	5.960	2.000	ALPHA
□	45.000	R.O.C		RUDER
△	90.000			RUDFLR
	135.000			
				CRBINC
				ELEVEN
				.500
				.000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

(RB0508)

AMES 97-707 IAS 02A + S3 + T9 SRM BOOSTER

SYMBOL
○
□
◇
△

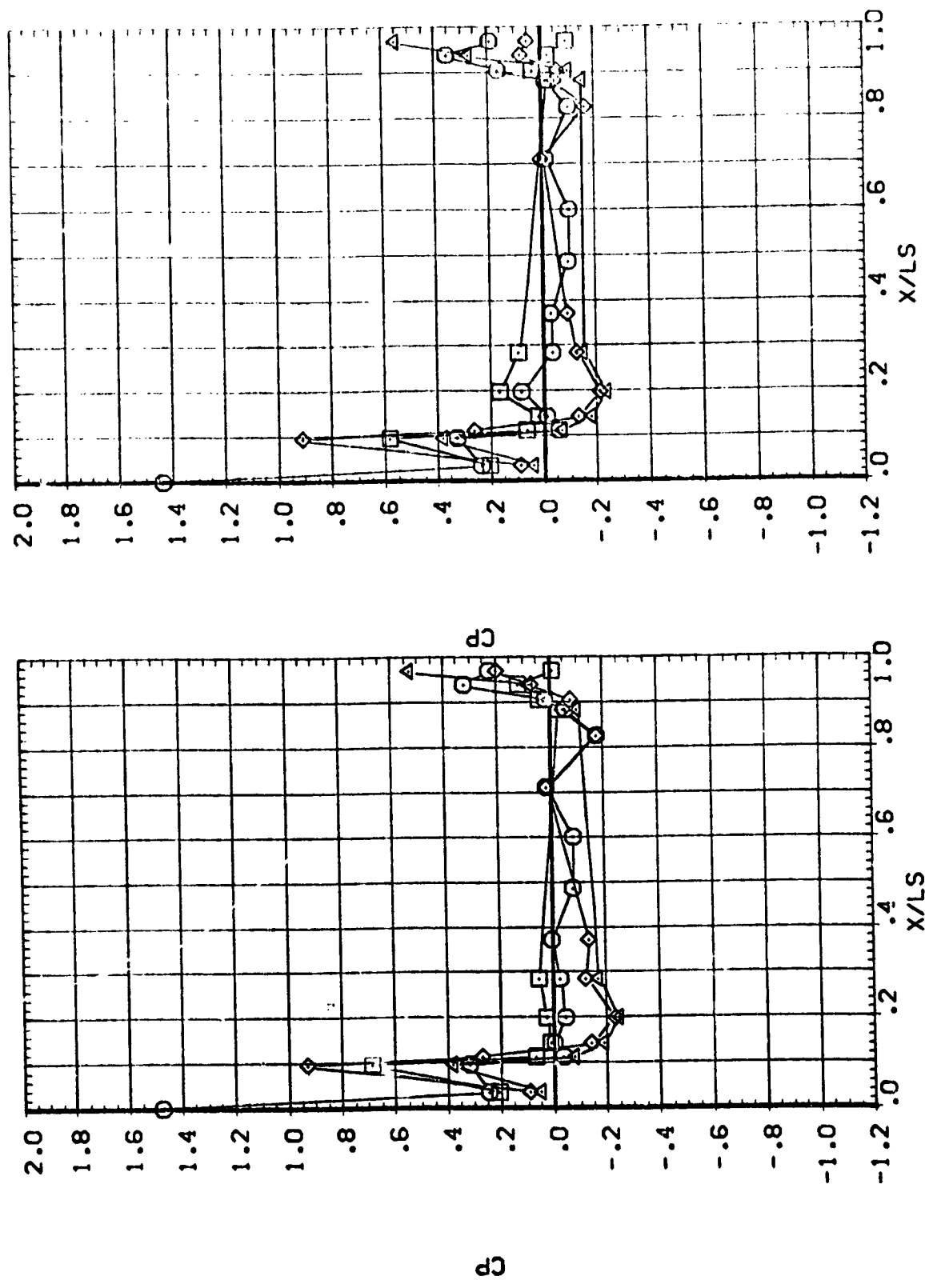
PHI
180.000
275.000
270.000
315.000

BETAT
-5.81C
8.01C

MACH
2.000

PARAMETRIC VALUES
ALPHAT
R00ER
R00FLR

-4.000
.000
.000
-500
-500

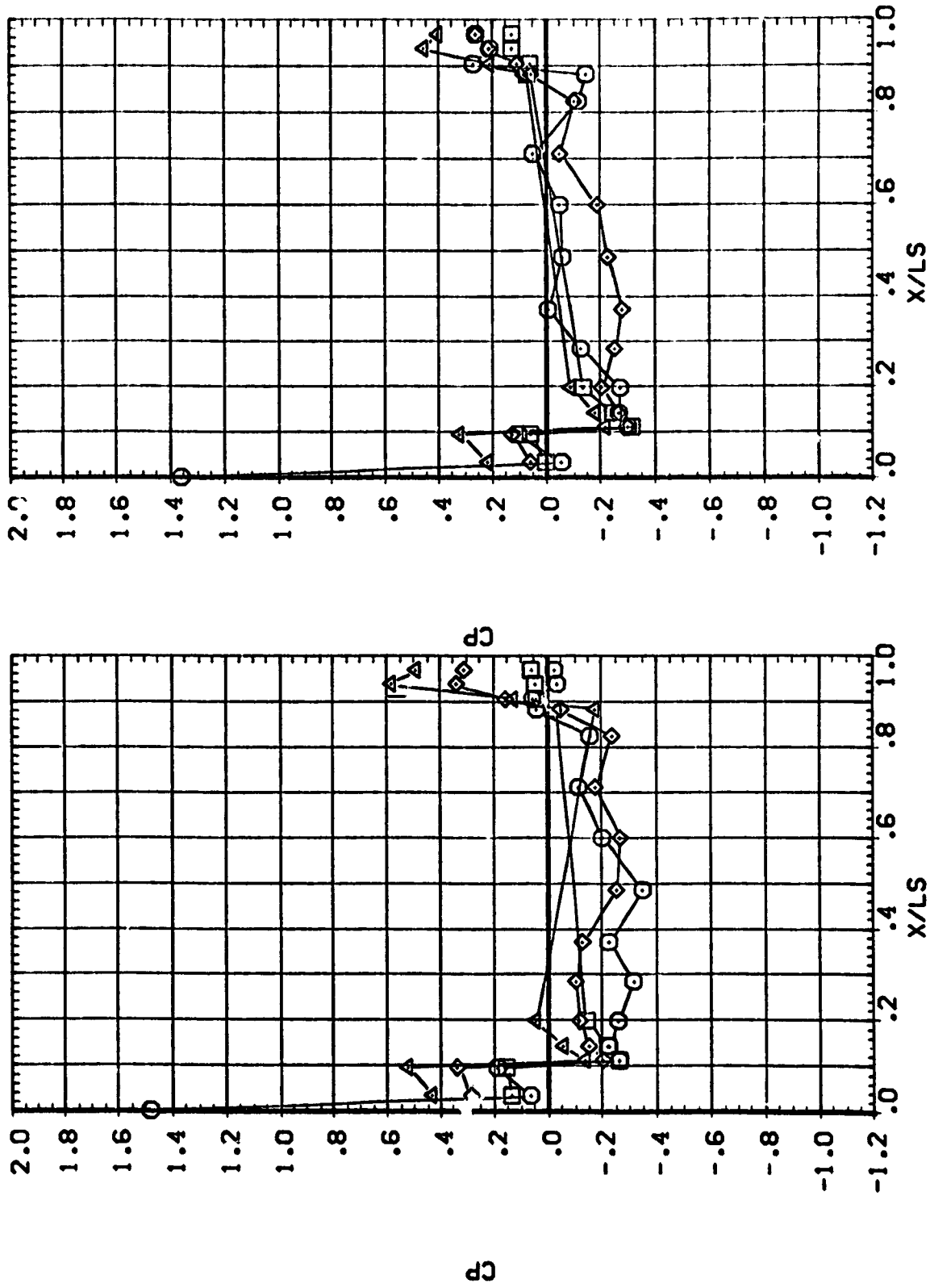


LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

III

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER (RB0S10)

SYMBOL	PHI	BETAT	MACH	ALPHAT	RODOR	RJFLR	PARAMETRIC VALUES	ORBITC	ELEVON
○	.000	-6.210	1.555	-8.000	.000	.000		.500	.000
□	45.000	3.650		.000	.000	.000			
◇	90.000								
△	135.000								



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

SYMBOL
 ○ □ ◇ △

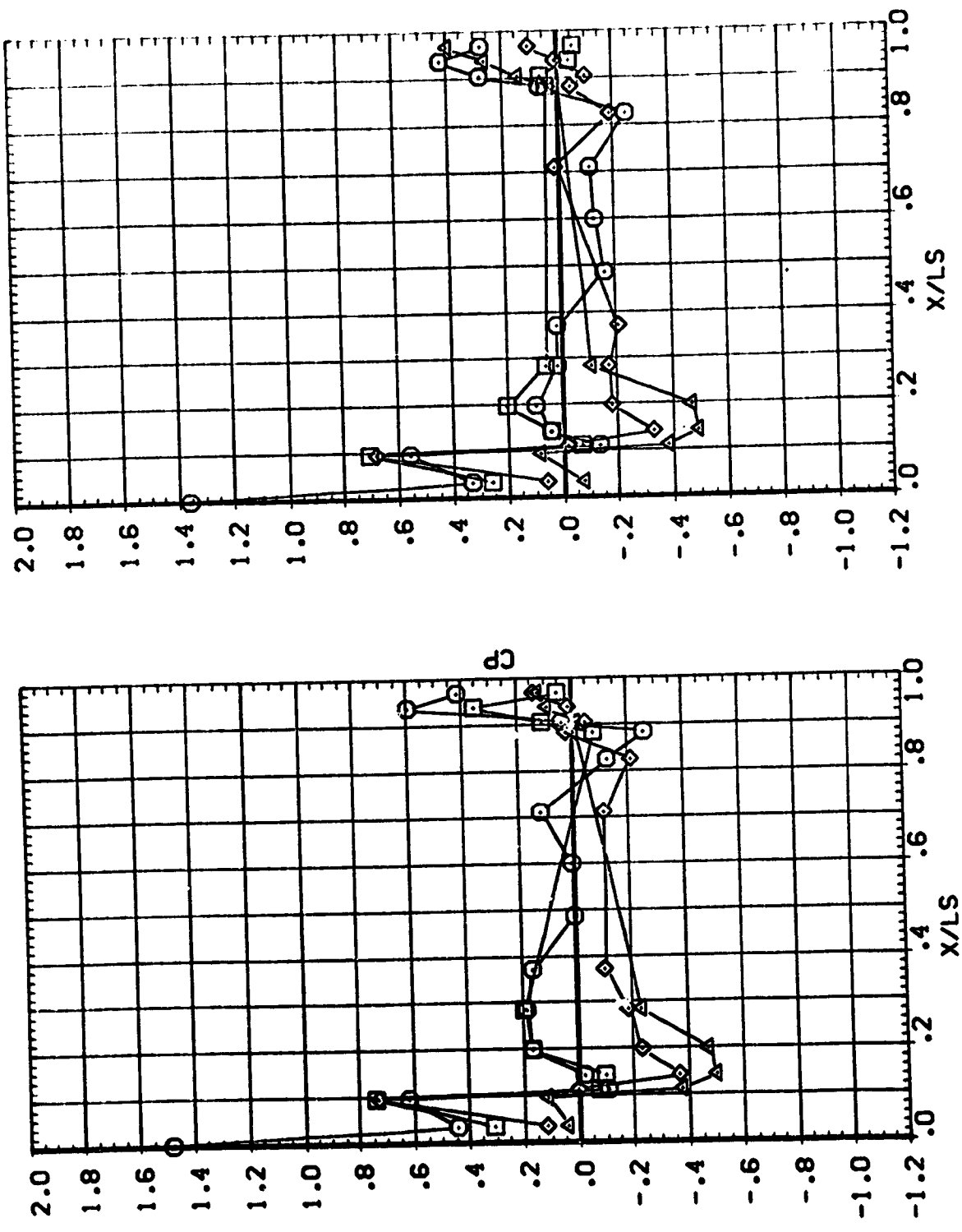
PHI 180.000
 275.000
 315.000

BETAT -6.210
 3.650

MACH 1.555

PARAMETRIC VALUES
 ALPHAT -8.000
 RUCCOR .000
 RUDFLR .000

ORBITAL
 ELEVON
 .500
 .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBCS10)

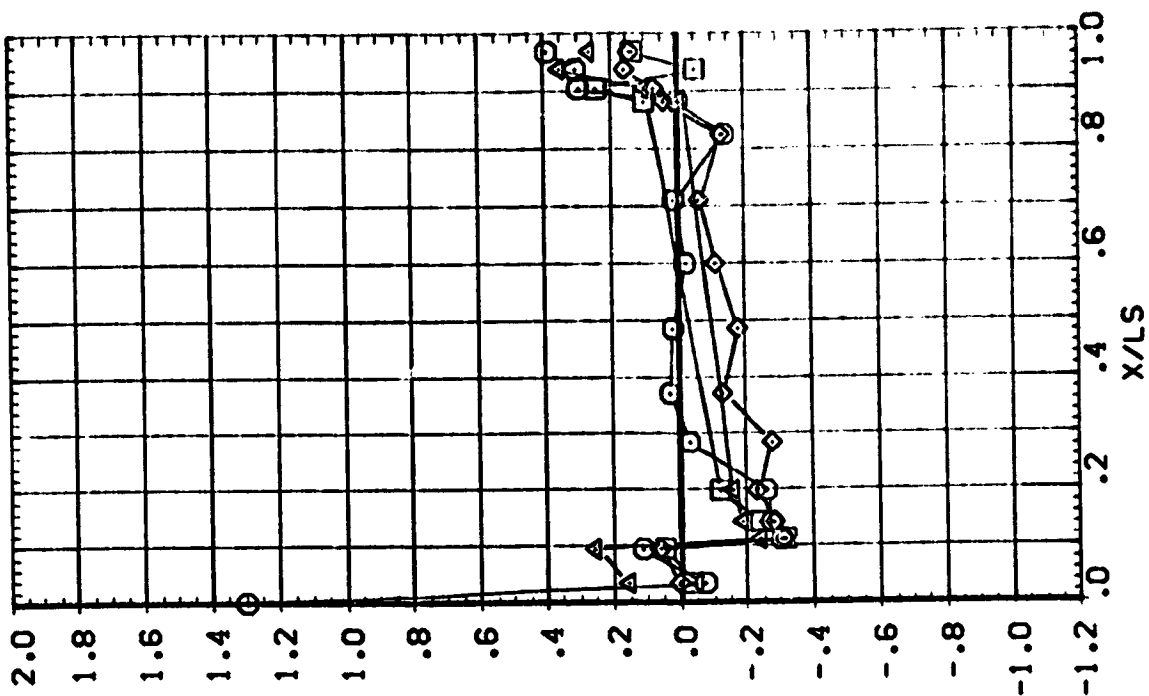
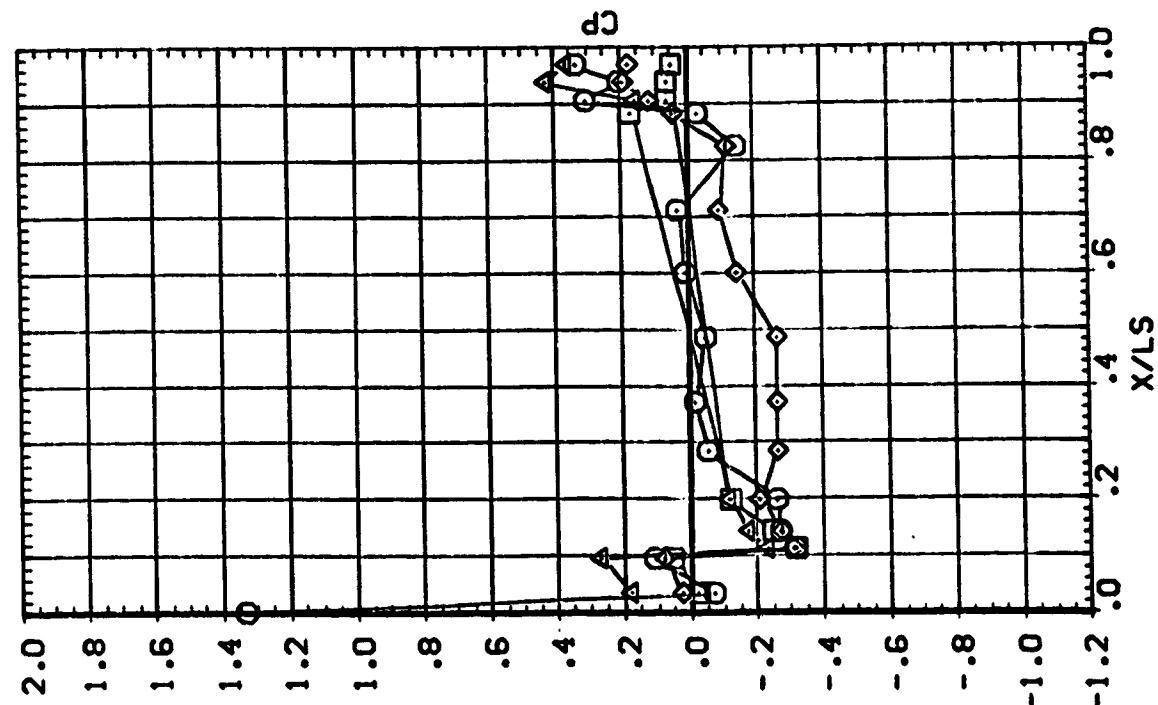
SYMBOL
 ○
 □
 ◇
 △

PHI
 .000
 45.000
 90.000
 135.000

BETAT
 5.710
 7.770

MACH
 1.555

PARAMETRIC VALUES
 ALPHAT -8.000 ORBINC .500
 RUDER .000 ELEVON .000
 RUDFLR .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

(RBCS10)

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

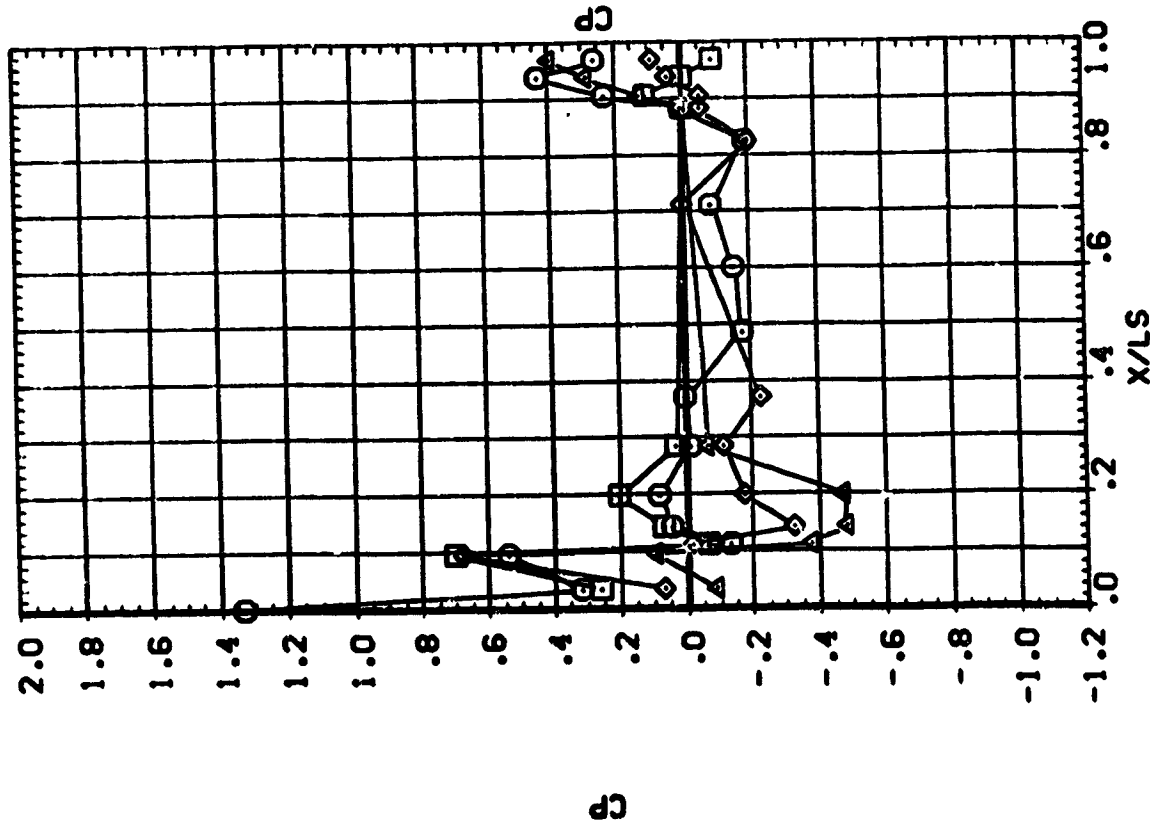
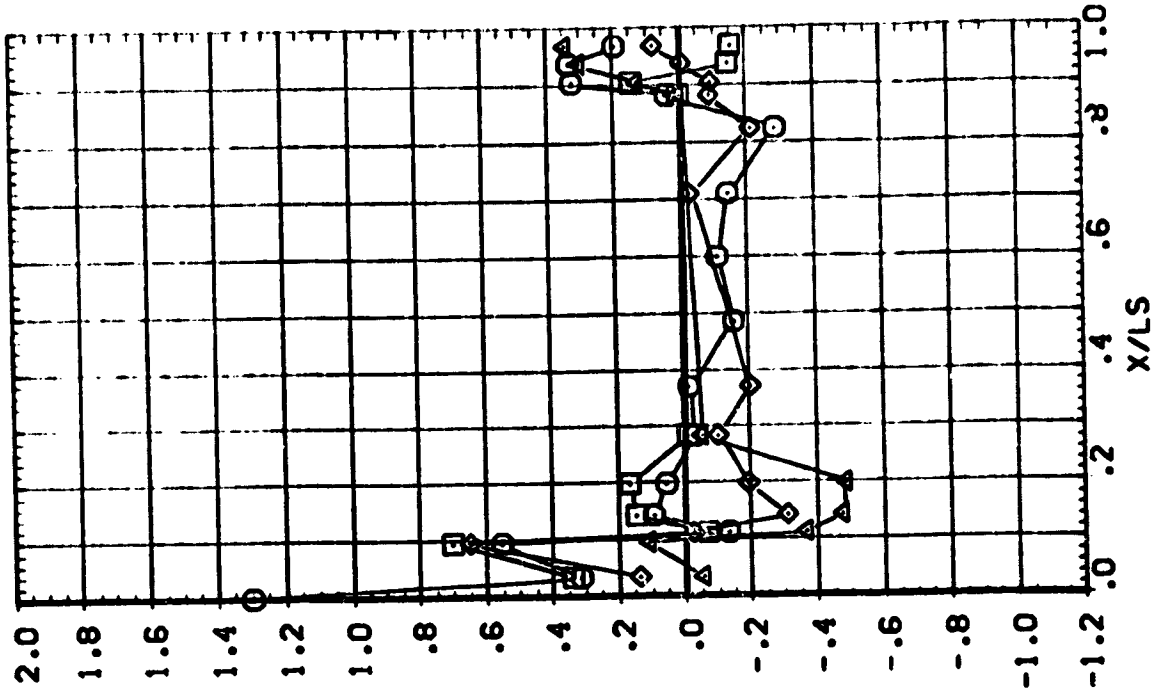
SYMBOL
○ □ ◇ △

PHI
180.000
275.000
270.000
315.000

BETAT
5.710
7.770

MACH
1.555

PARAMETRIC VALUES
ALPHAT -8.000 CRBINC .500
RCDER .000 ELEVON .000
RCDLR .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 97-707 :A9 02A + S3 + T9 SRM BOOSTER

(RB0S10)

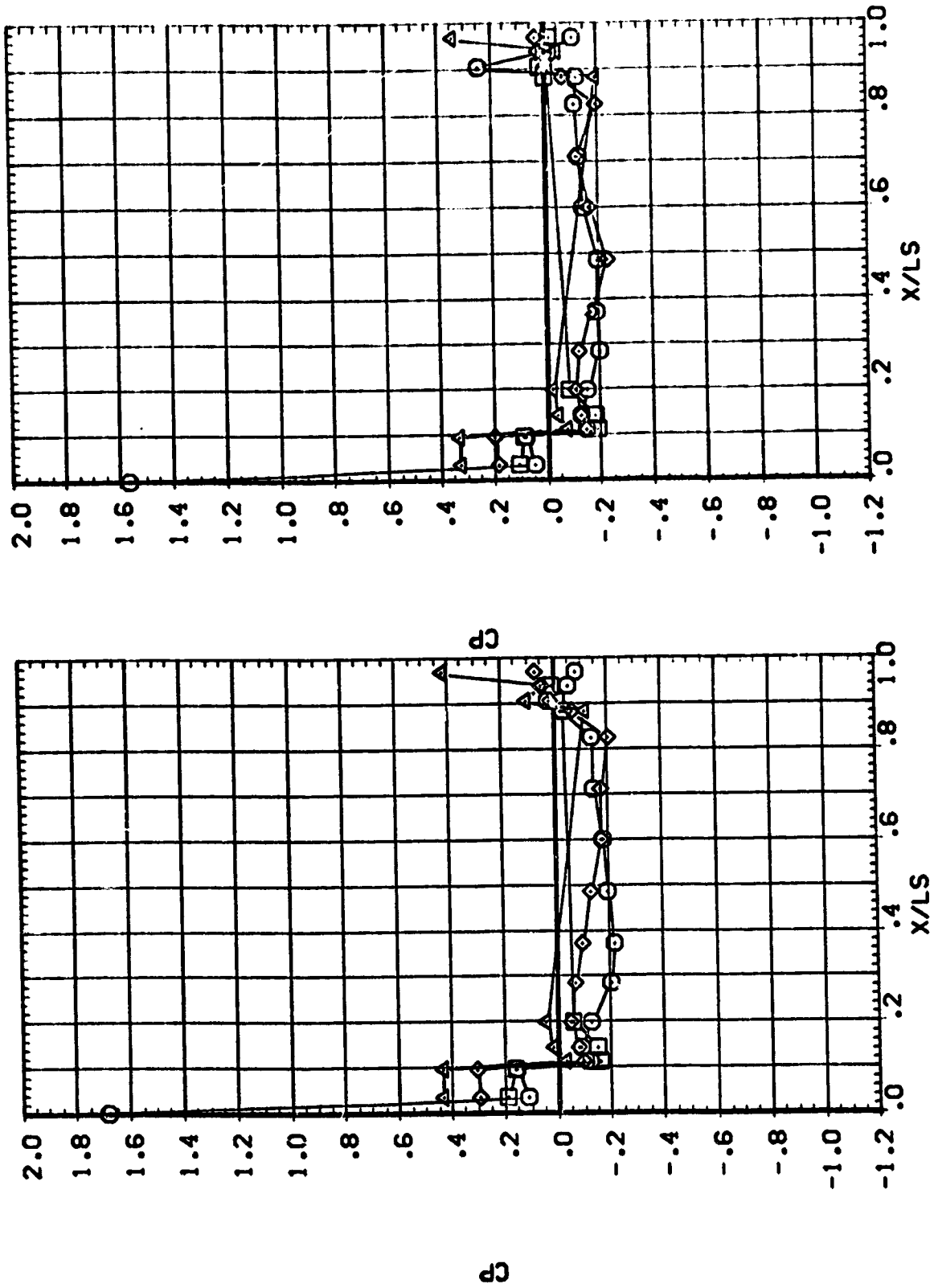
SYMBOL
○ □ ◇ △

PHI
.000
45.000
90.000
135.000

BETAT
-4.280
-1.170

MACH
2.000

PARAMETRIC VALUES
ALPHAT
RJOER
RJOFLR
-8.000
.000
.000
ORBITAL
ELEVON
.500
.000



AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

(RB0510)

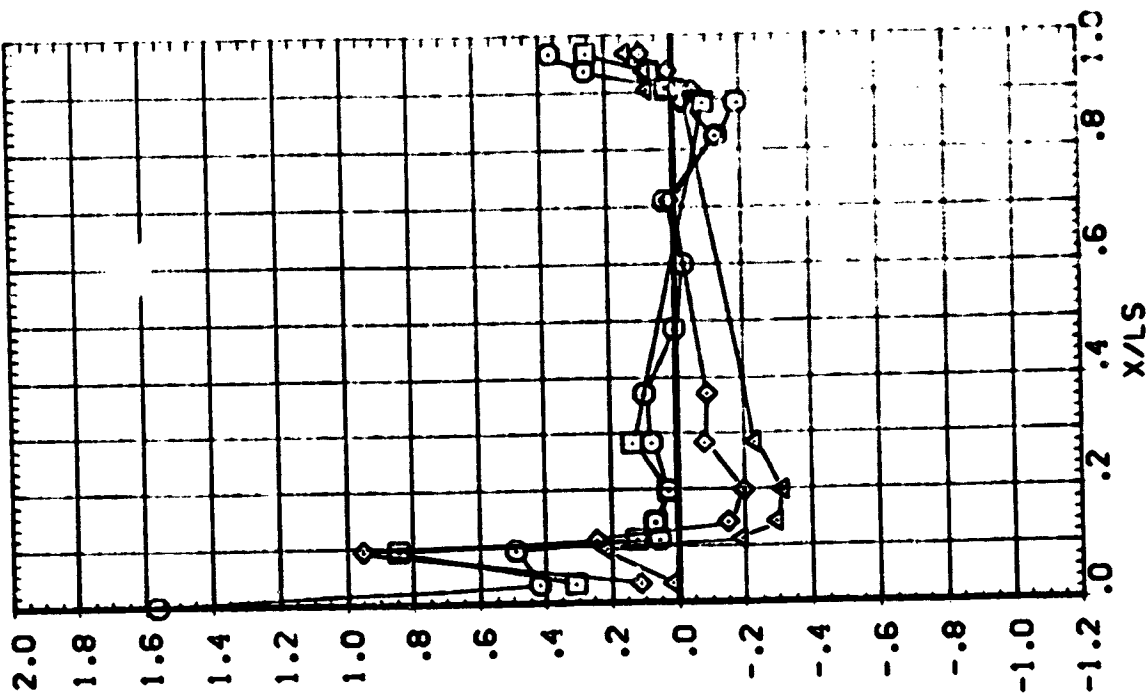
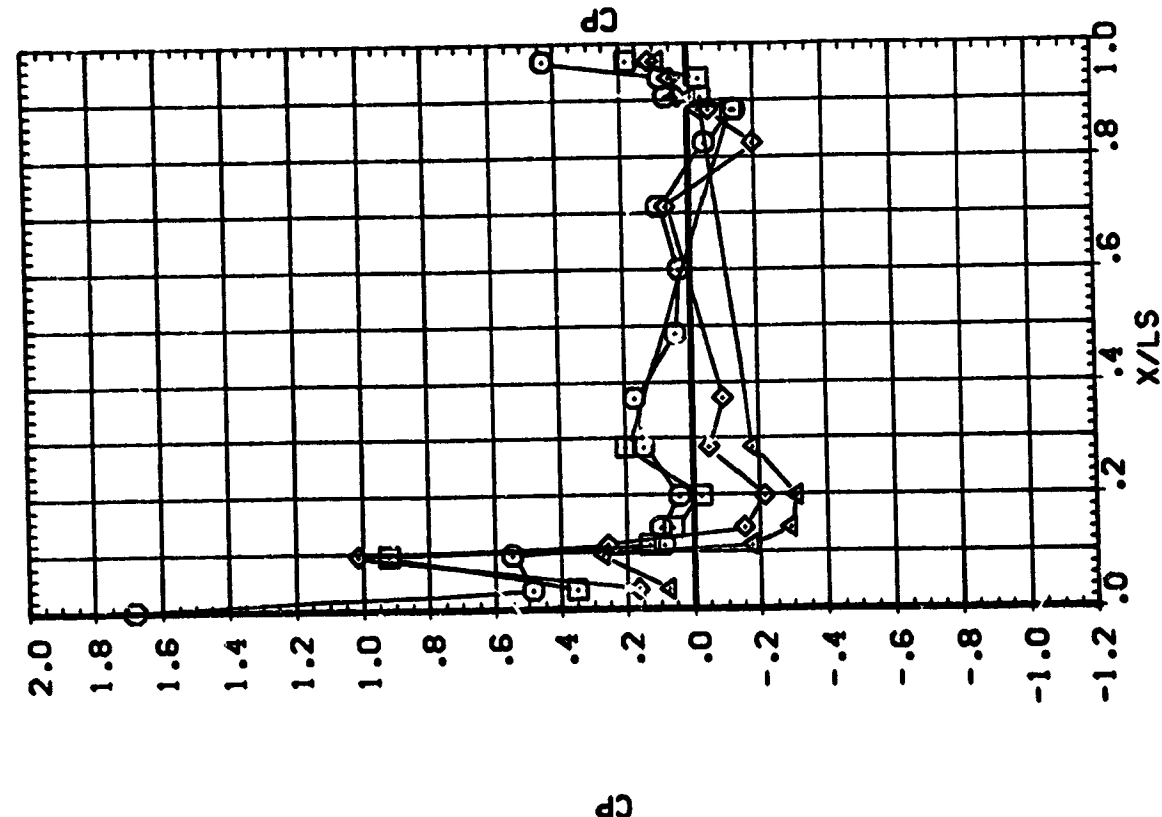
SYMBOL
○ □ ◇ △

PHI
180.000
225.000
270.000
315.000

BETAT
-4.280
-1.170

MACH
2.000

PARAMETRIC VALUES
-8.000 DRBINC .500
.000 ELEVON .000
RJOFLR



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

(RB0510)

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

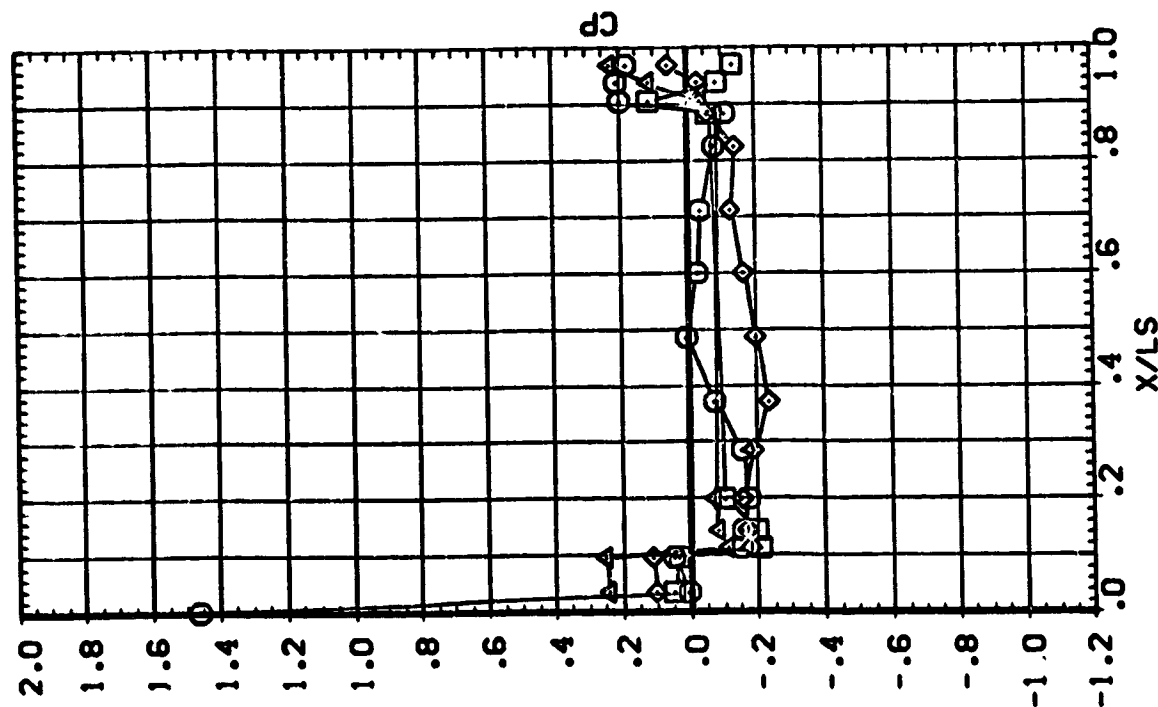
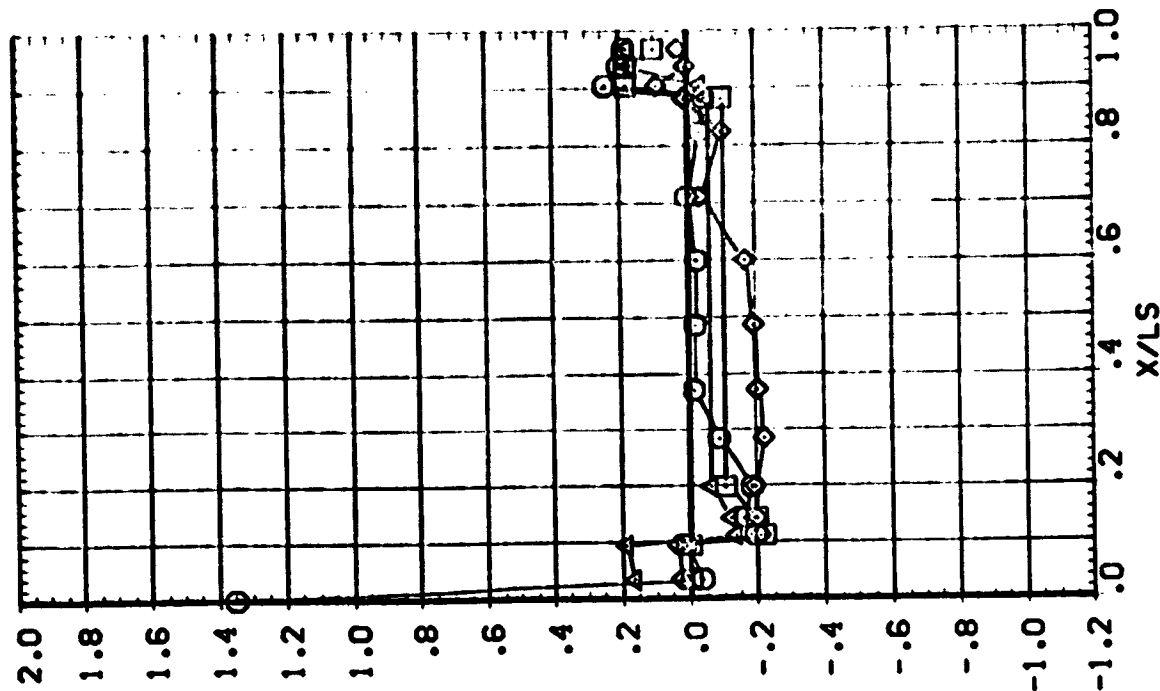
PARAMETRIC VALUES
 -8.000 ORBITING
 .000 ELEVON
 .000

ALPHA
 RUDER
 RUDER

BETAT MACH
 3.940 2.000
 8.050

PHI
 .000
 45.000
 90.000
 135.000

SYMBOL
 ○ □ ◇ △



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER

(R80510)

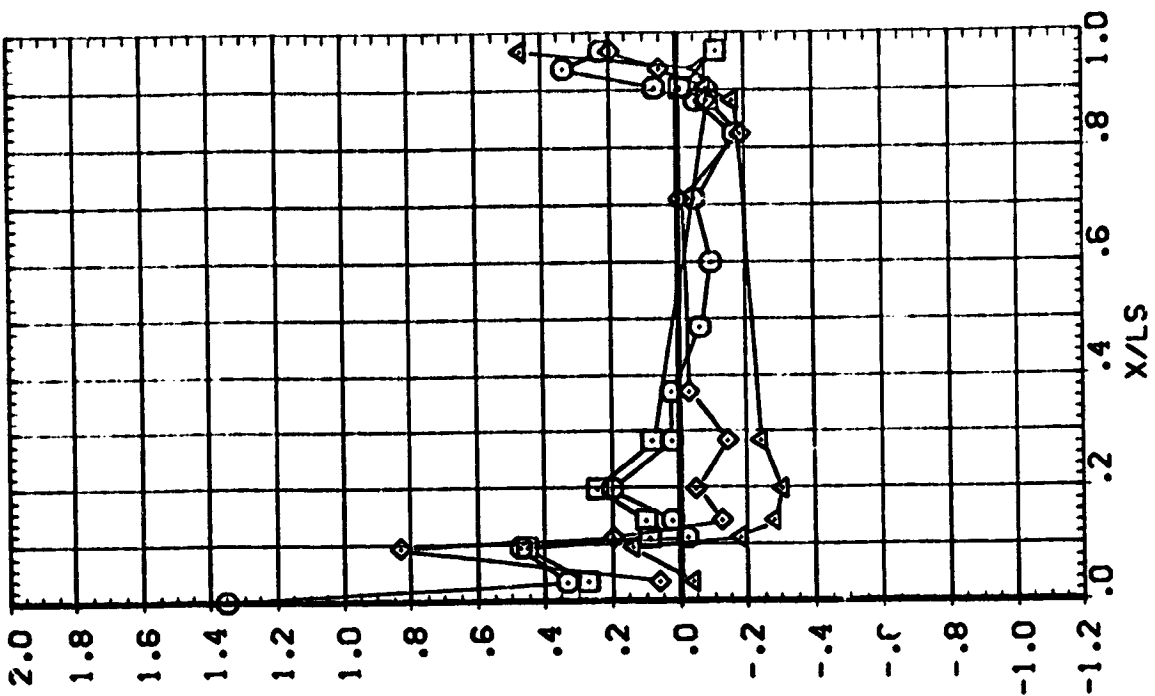
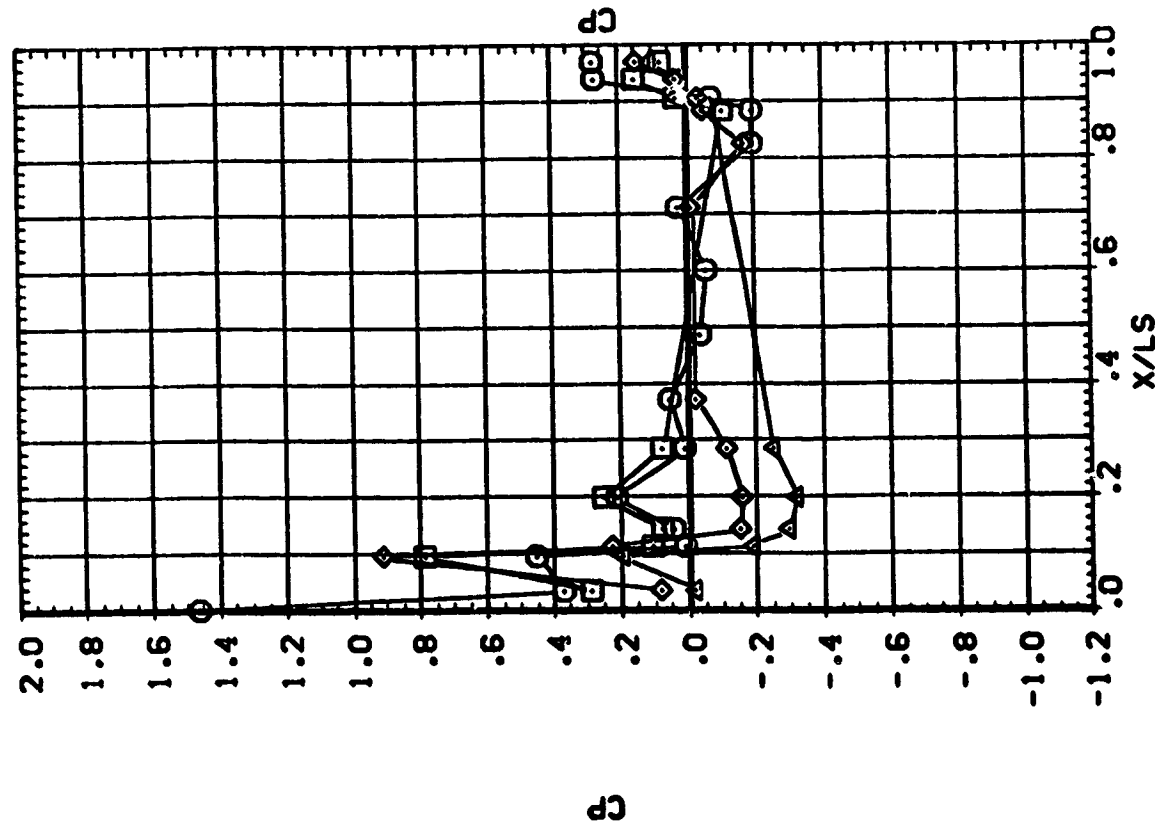
SYMBOL
 ○
 □
 ◇
 △

PMI
 180.000
 275.000
 270.000
 315.000

BETAT
 3.940
 8.050

MACH
 2.000

PARAMETRIC VALUES
 ALPHAT
 R000R
 R000L
 ORBINC
 ELEVON
 .500
 .000
 .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



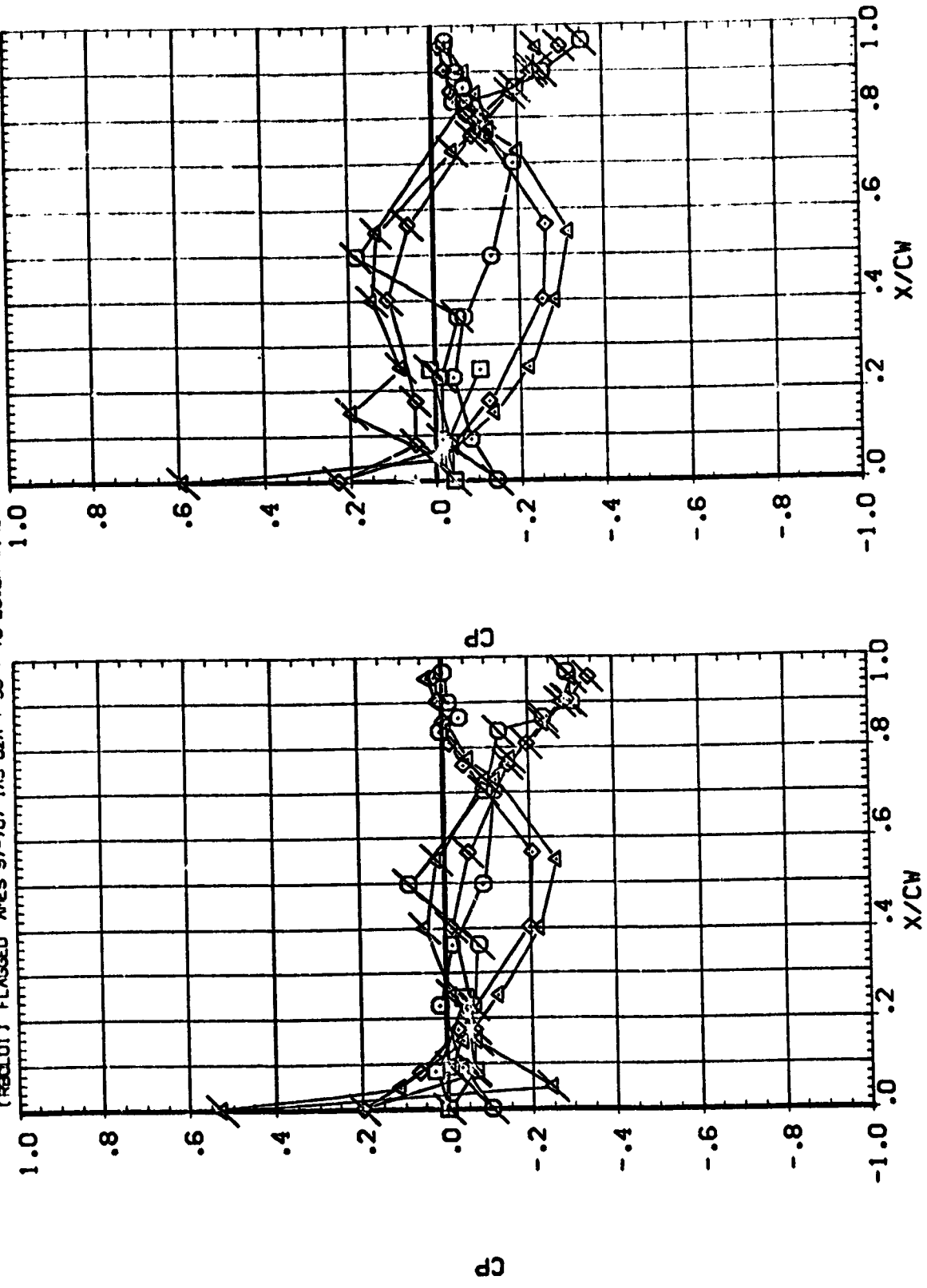
SYMBOL Y/BV
○ .299
□ .364
◇ .427
△ .534

ALPHAT MACH
-4.250 1.555
-.120

BETAT
RJOOR
RJOFLR

PARAMETRIC VALUES
.000 CRBINC
.000 ELEVON
.500

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(RBOLOI) OPEN AVES 97-707 1A9 D2A + S3 + T9 UPPER WING
(RBOLOI) FLAGGED AVES 97-707 1A9 D2A + S3 + T9 LOWER WING

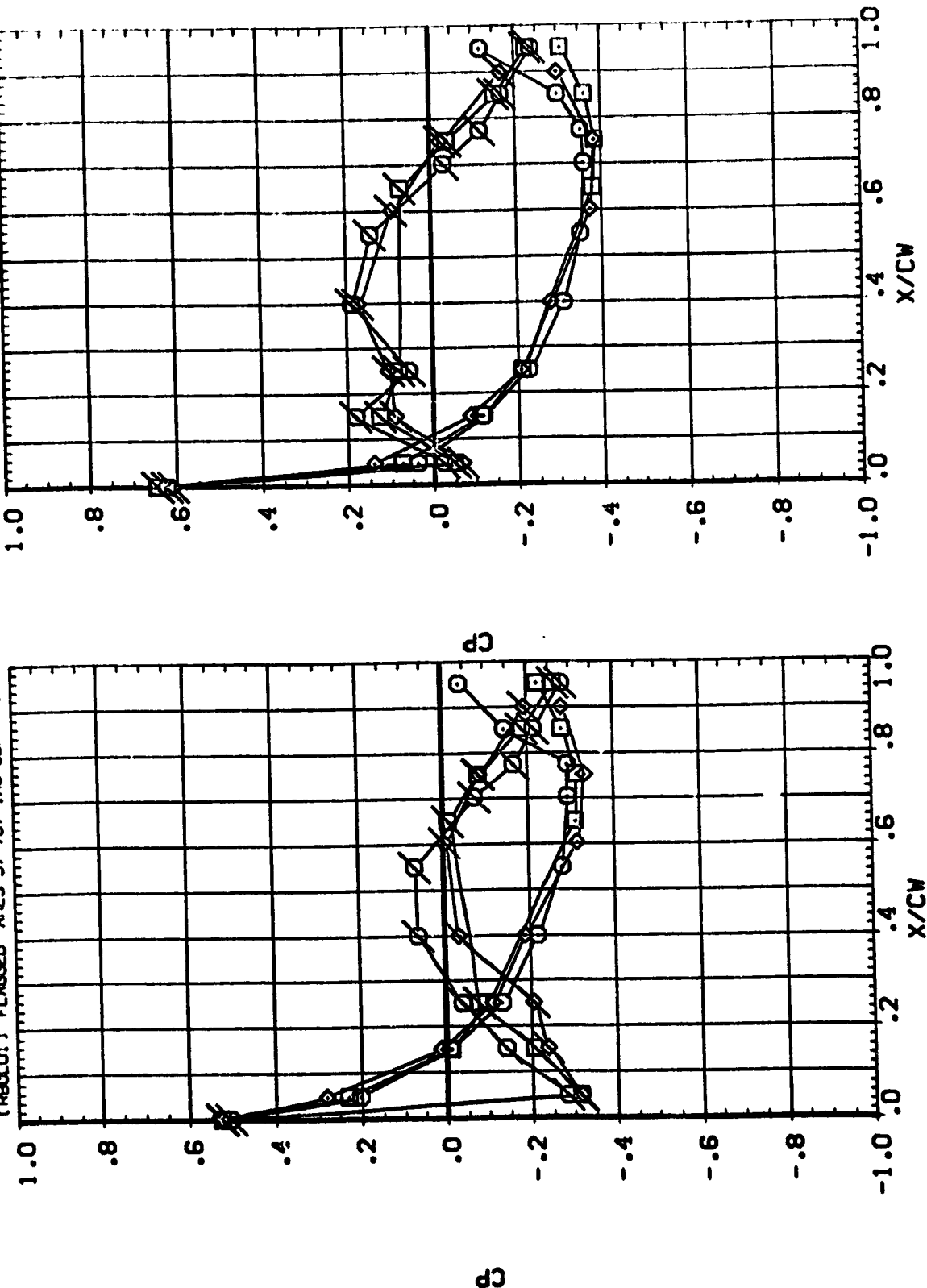


SYMBOL Y/BV
 .673
 .780
 .887

ALPHAT MACH
 -4.250 1.555
 -.120

PARAMETRIC VALUES
 BETAT .000 0.000 NC
 RUDDER .000 ELEVON
 RUOFLR .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBOLOI) OPEN AVES 97-707 1A9 02A + S3 + 19 UPPER WING
 (RBOLOI) FLAGGED AVES 97-707 1A9 02A + S3 + 19 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

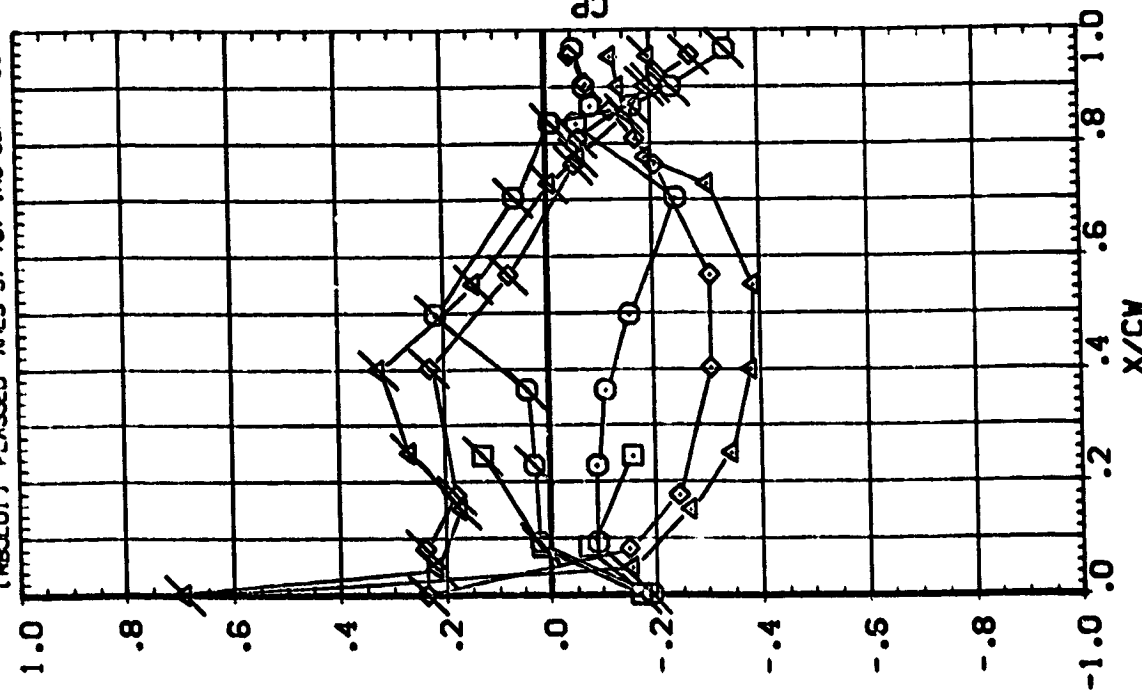
SYMBOL

Y/BV
.299
.364
.427
.534

ALPHAT
4.010
8.130

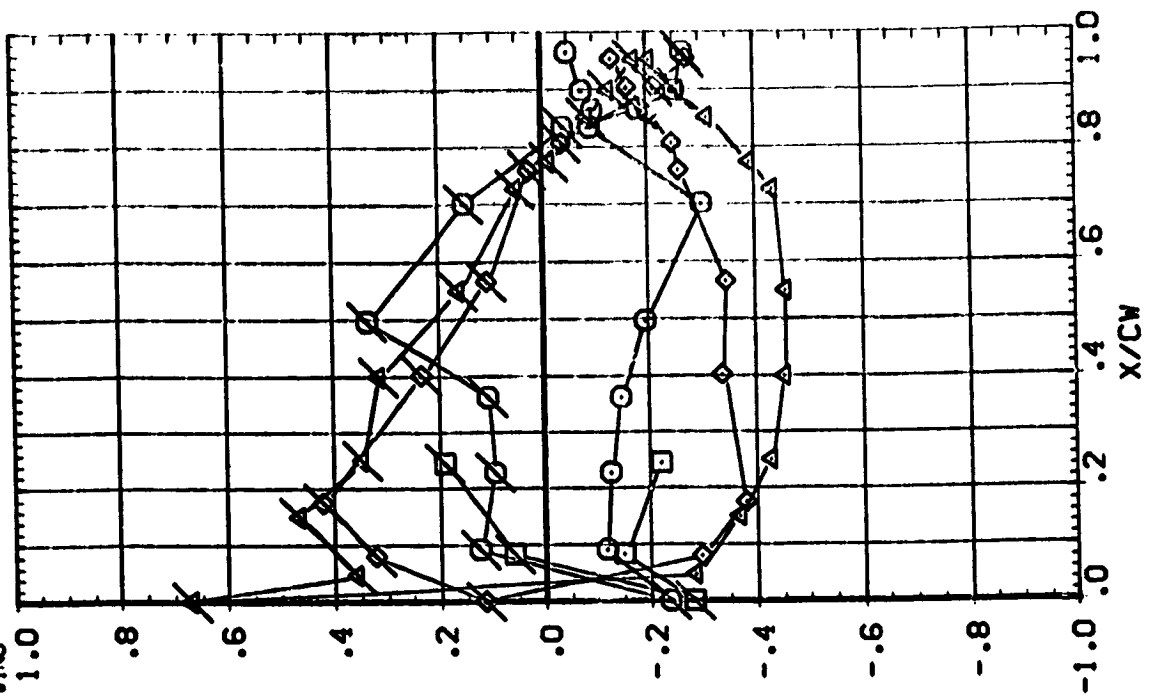
MACH
1.555

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(RBOLOI) OPEN AYES 97-707 IAS 02A + S3 + T9 UPPER WING
(RBOLOI) FLAGGED AYES 97-707 IAS 02A + S3 + T9 LOWER WING



PARAMETRIC VALUES

BETAT .000
RUDDER .000
RUOFLR .000
ORGINC .500
ELEVON .000



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL
 ○ □ ◇

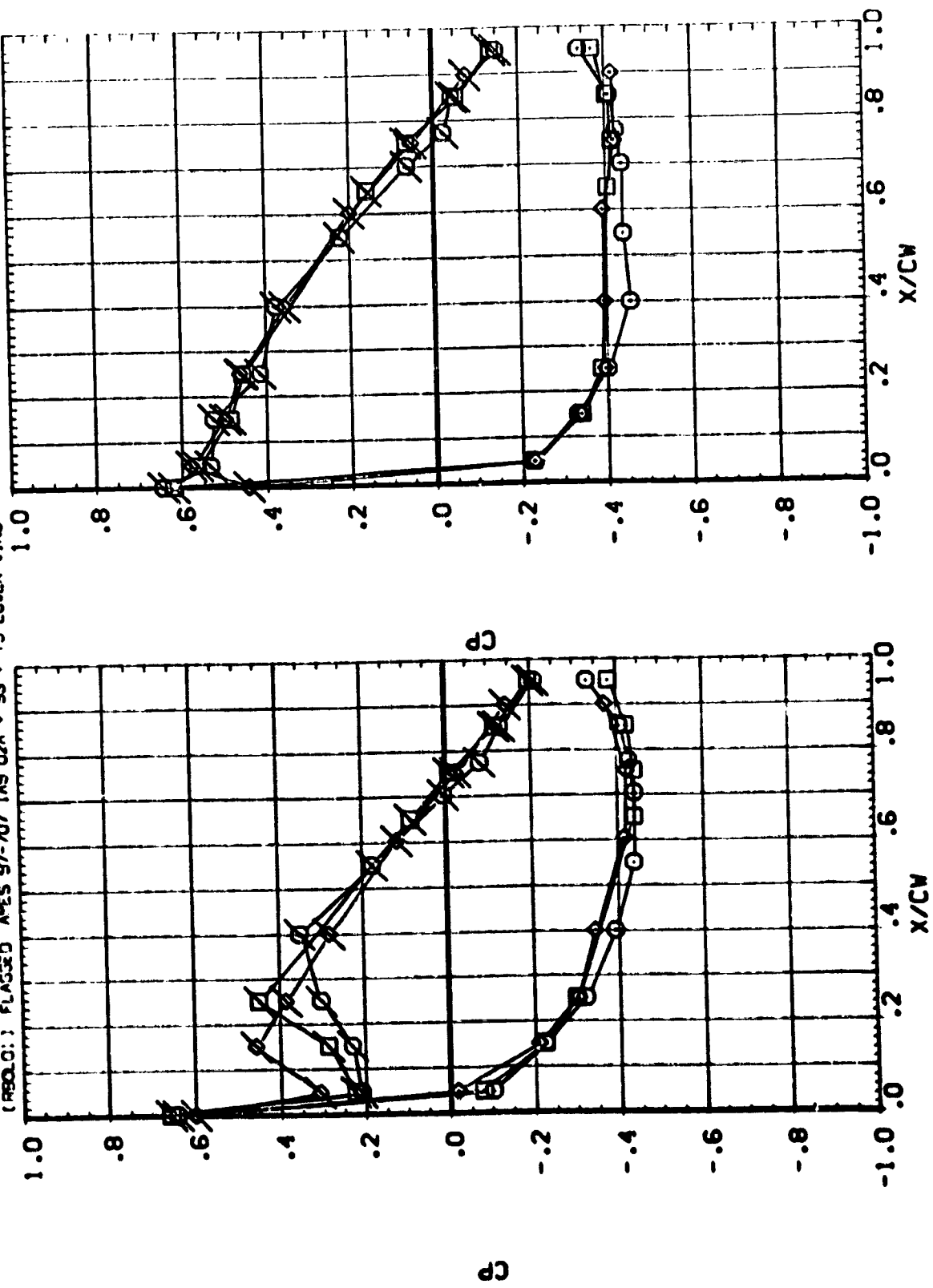
Y/ON
 .673
 .780
 .887

ALPHA
 4.0°C
 8.13C

MACH
 1.555

PARAMETRIC VALUES
 BETAT .000
 RUDDER .000
 RUFLR .000
 ORBINC .500
 ELEVON .000

DATA SET SYMBOL CON 3 ION DESCRIPTION
 (REQD) OPEN AMES 97-707 1A9 02A : S3 : 19 UPPER WING
 (REQD) FLAGGED AMES 97-707 1A9 02A : S3 : 19 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL V/BV
 .299
 .364
 .427
 .534

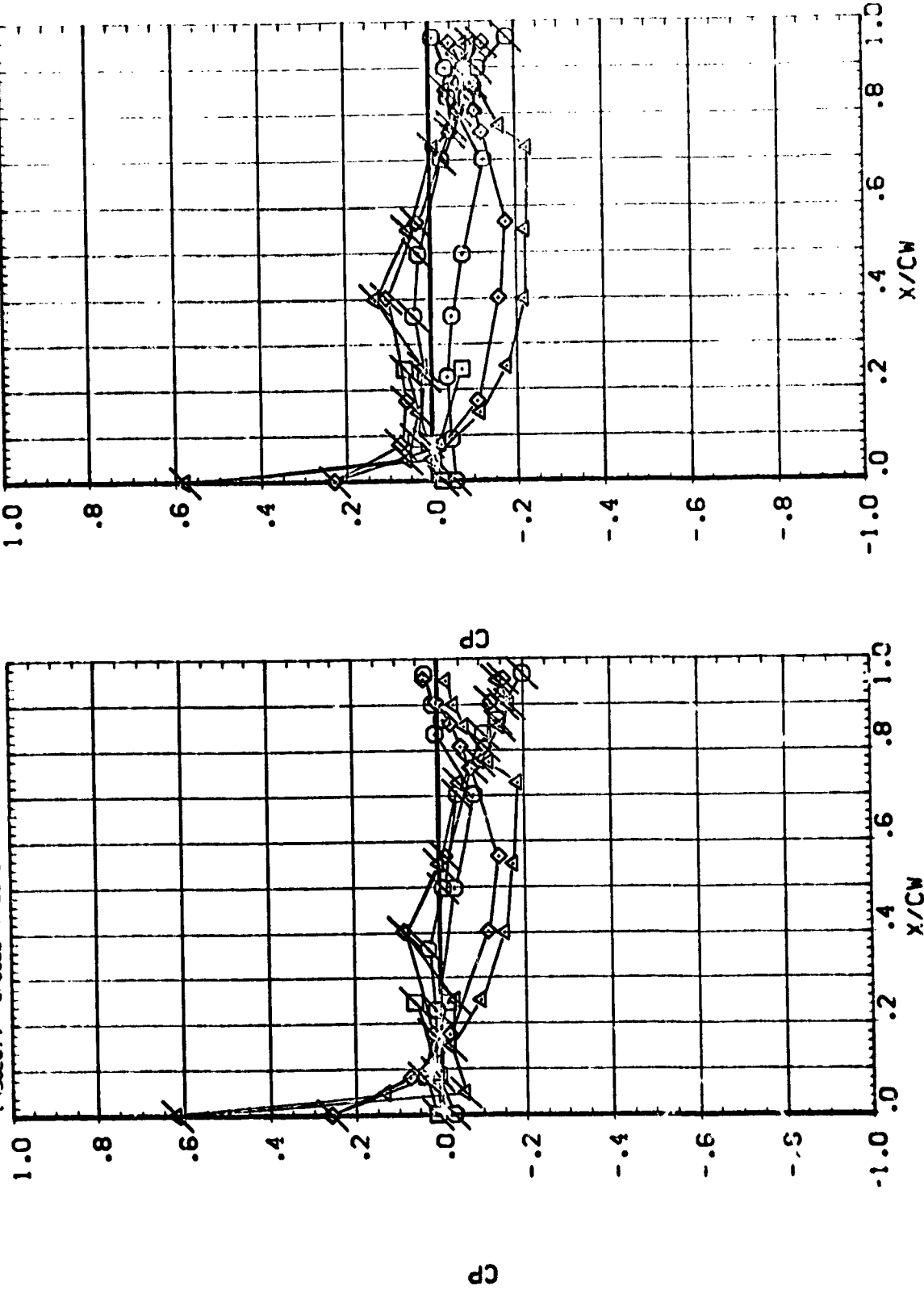
ALPHA
 -4.250
 -.160

MACH
 2.000

BETAT
 RUDER
 RUDLR

PARAMETRIC VALUES
 .000 .500
 .000 .000
 .000 .000
 .000 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RUC-21) OPEN AMES 97-707 IAS 02A + S3 + T9 UPPER WING
 (RUC-21) FLAGGED AMES 97-707 IAS 02A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETRIC VALUES

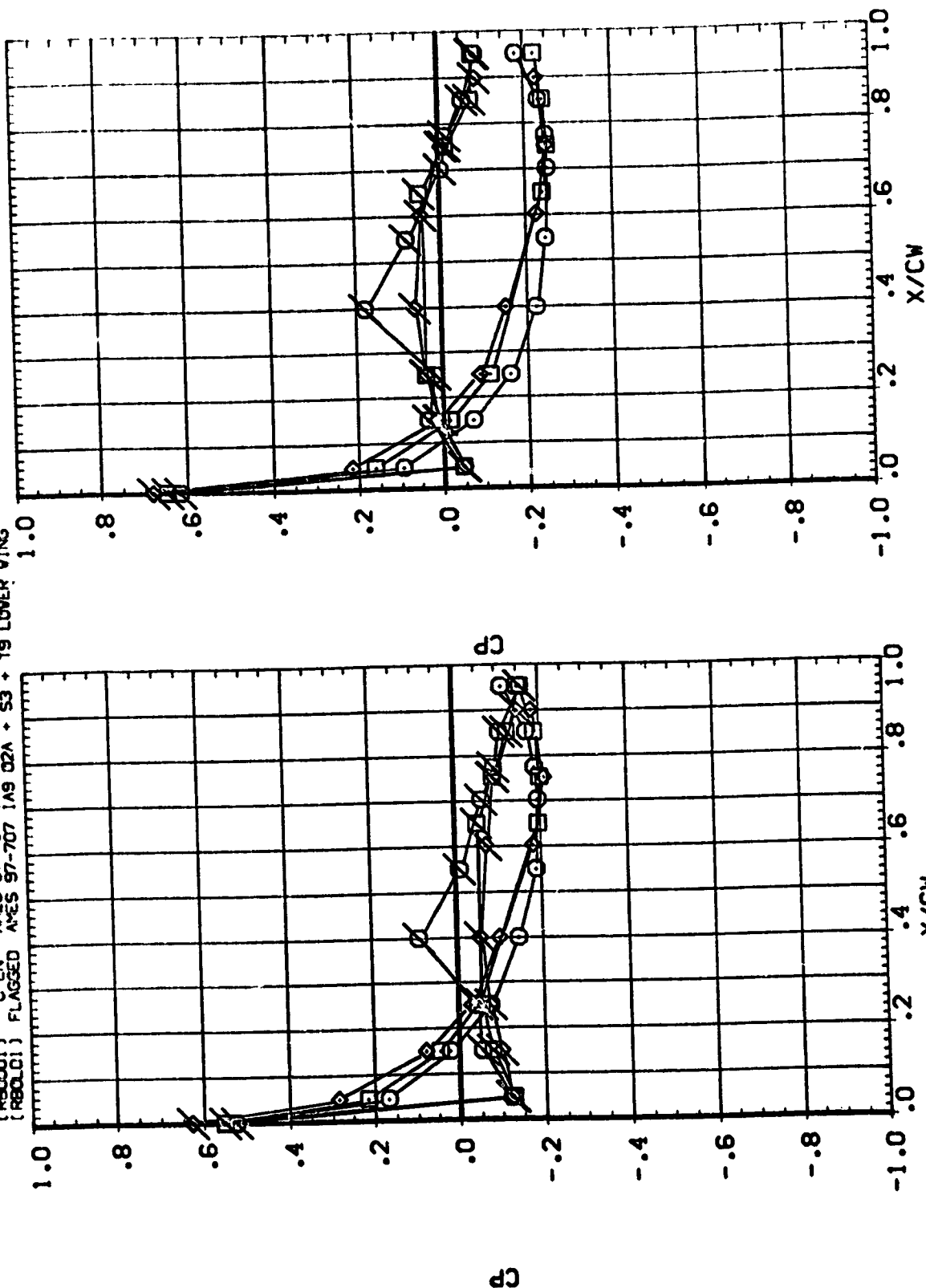
BETAT	.000	ORBIT	.500
RUDDER	.000	ELEVON	.000
RUOFLR	.000		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(R8QJ01)	OPEN	AMES 97-707 IAS 02A + S3 + T9 UPPER WING
(R8QJ01)	FLAGGED	AMES 97-707 IAS 02A + S3 + T9 LOWER WING

SYMBOL Y/BV ALPHAT MACH

○	.673	-4.250	2.000
□	.780	-.160	
◇	.987		



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETRIC VALUES

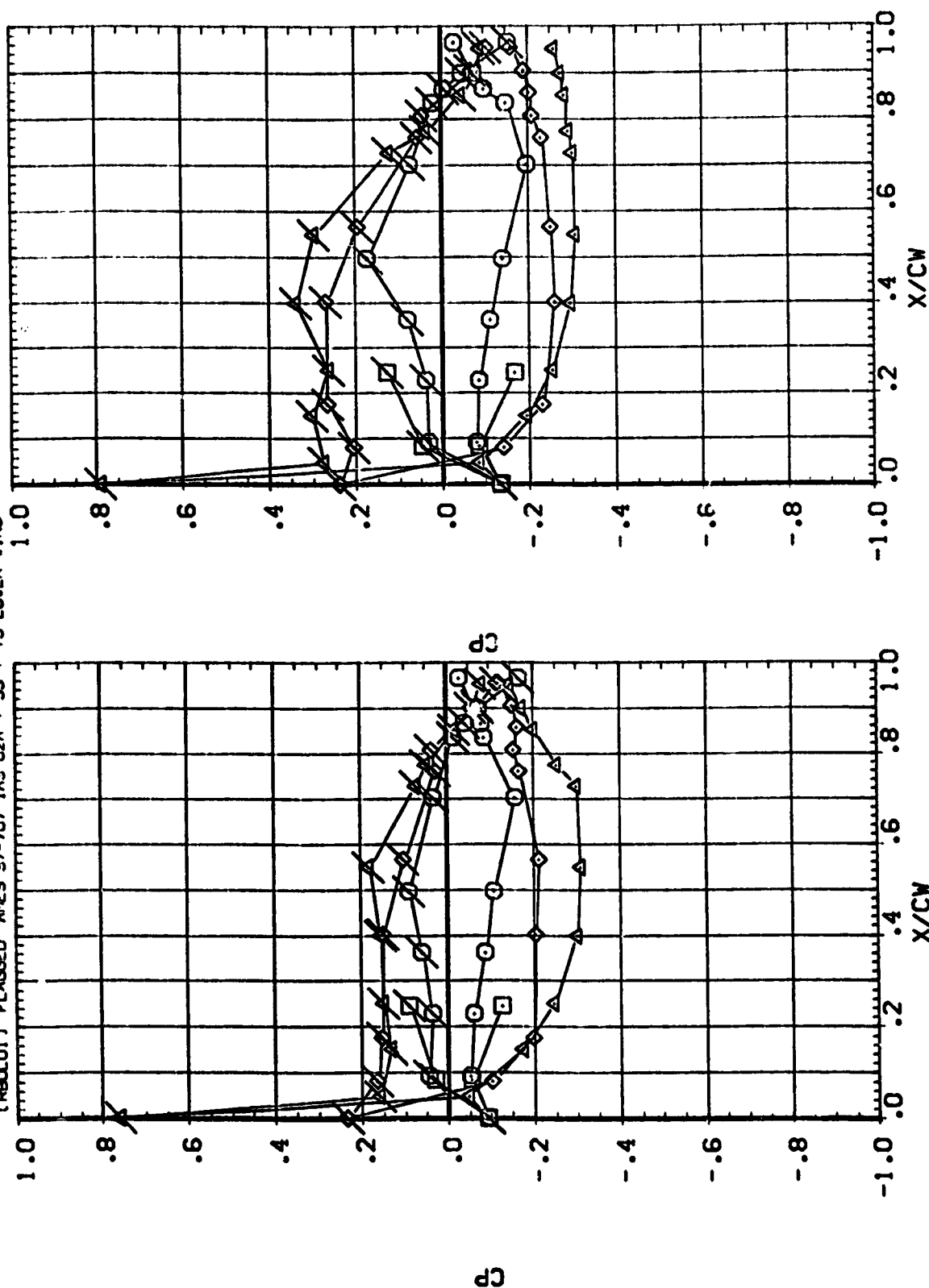
BETAT	.000	ORBNIC	.500
RUCOR	.000	ELEVON	.000
RUCFLR	.000		

SYMBOL

Y/BN	ALPHAT	MACH
.299	3.930	2.000
.364	8.020	
.427		
.534		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(R80L01)	OPEN	AMES 97-707 IAS 02A + S3 + T9 UPPER VING
(R80L01)	FLAGGED	AMES 97-707 IAS 02A + S3 + T9 LOWER VING

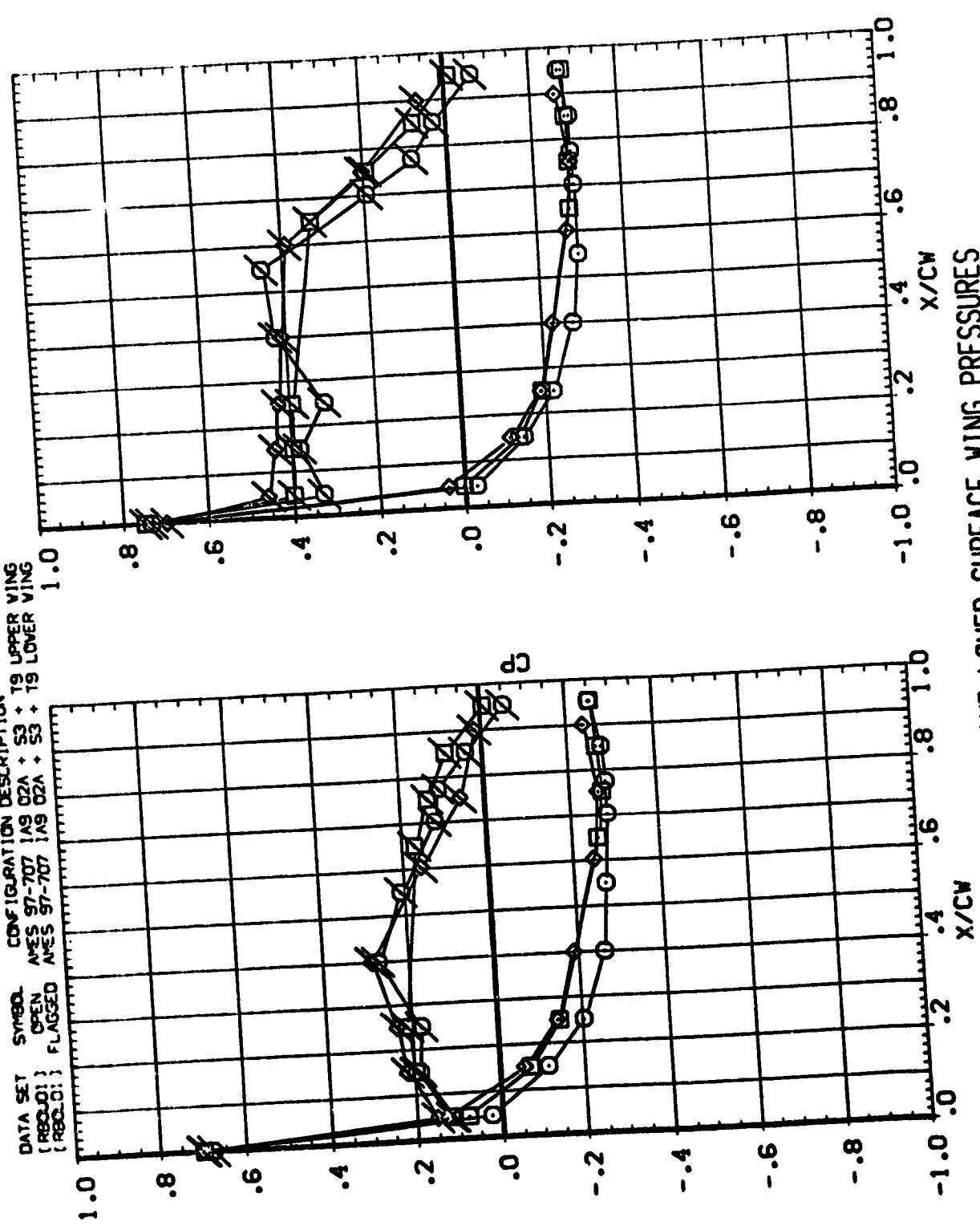


CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

BETAT
 RUDDER
 RUOFLR
 .000
 .000
 .000
 .000
 .000
 .000

SYMBOL Y/BN ALPHAT MACH
 .573 3.930 2.000
 .780 8.020
 .887

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (REQD) OPEN ARES 97-707 1A9 02A + S3 + T9 UPPER WING
 (REQD) FLAGGED ARES 97-707 1A9 02A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETRIC VALUES

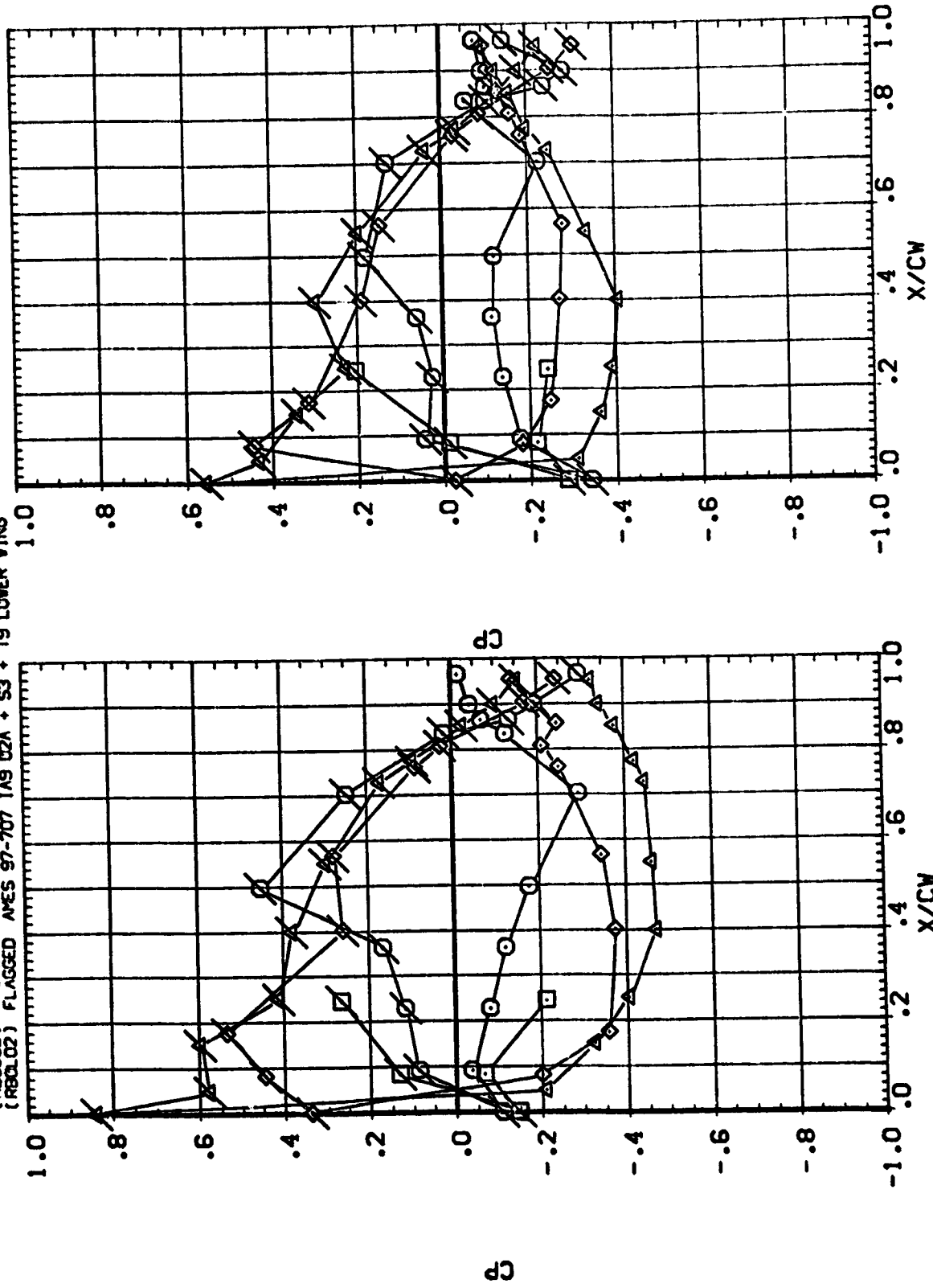
ALPHAT	8.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RJDFLR	.000		

SYMBOL Y/BV BETAT MACH

○	.299	-5.100	1.555
□	.364	5.110	
◇	.427		
△	.534		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(R80L02)	OPEN	AMES 97-707 1A9 02A + S3 + T9 UPPER WING
(R80L02)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 LOWER WING



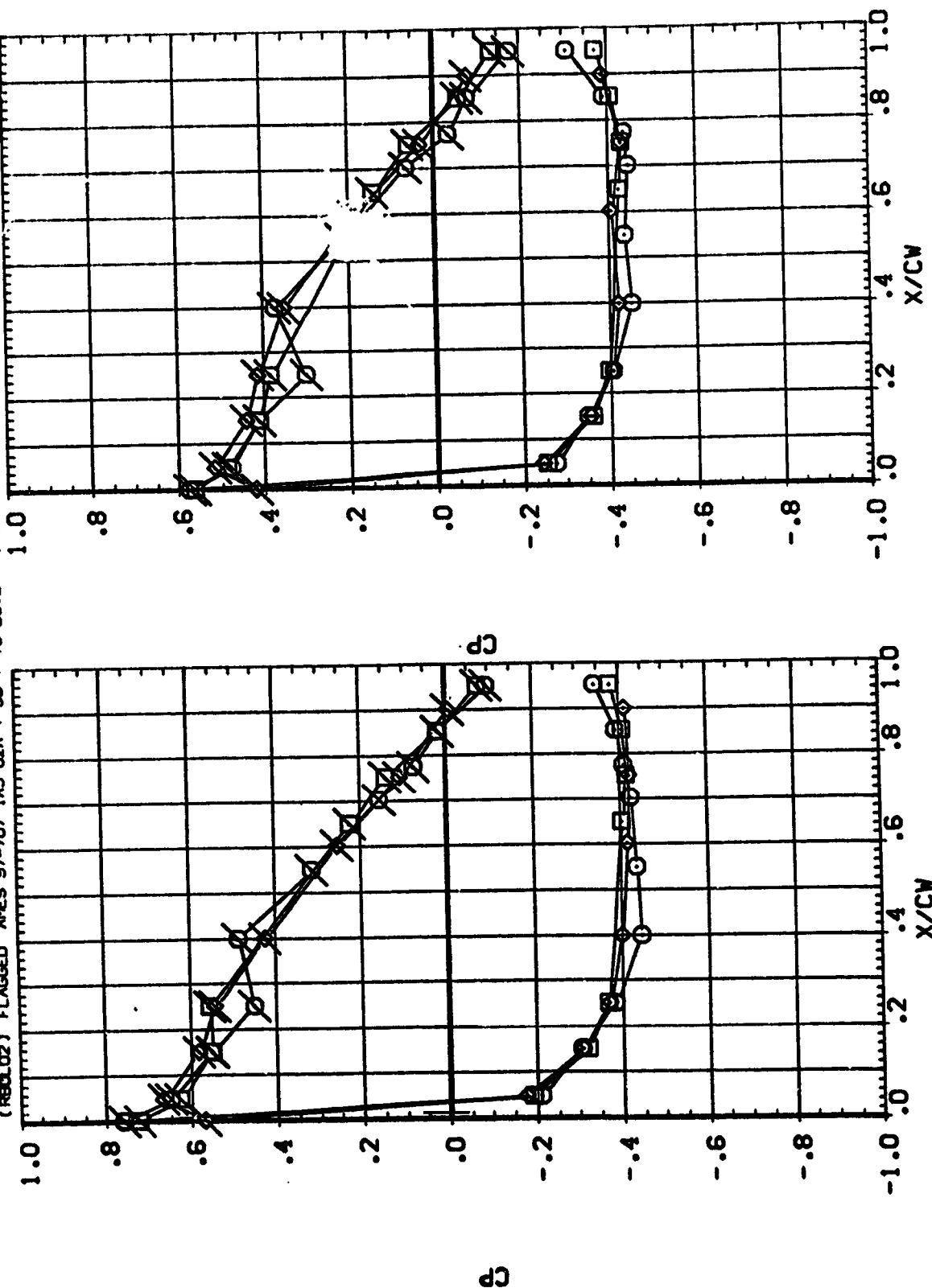
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL V/BV
 ○ .673
 □ .780
 ◇ .887

BETAT MACH
 -5.100 1.555
 5.110

PARAMETRIC VALUES
 ALPHAT 8.000
 RUDDER .000
 RUFLR .000
 ORBINC .500
 ELEVON .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBD02) AMES 97-707 1A9 02A + S3 + T9 UPPER WING
 (RBD02) FLAGGED AMES 97-707 1A9 02A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETRIC VALUES

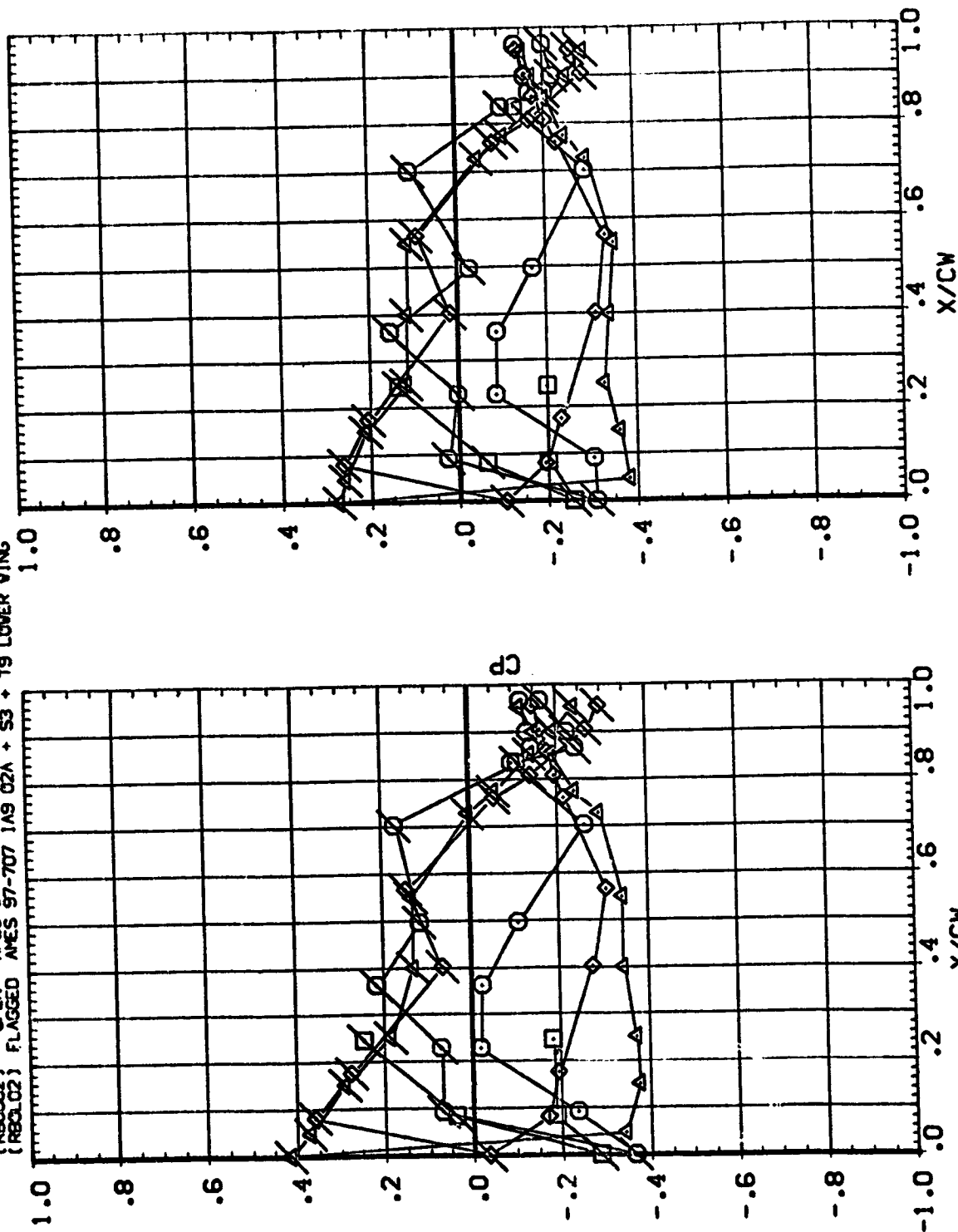
ALPHAT	8.000	ORGINC	.500
RUDDER	.000	ELEVON	.000
RUOFLR	.000		

SYMBOL Y/BV BETAT MACH

○	.299	7.140	1.555
□	.364	9.190	
◇	.427		
△	.534		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RBOLO2)	OPEN	AMES 97-707 1A9 02A + S3 + T9 UPPER VING
(RBOLO2)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 LOWER VING



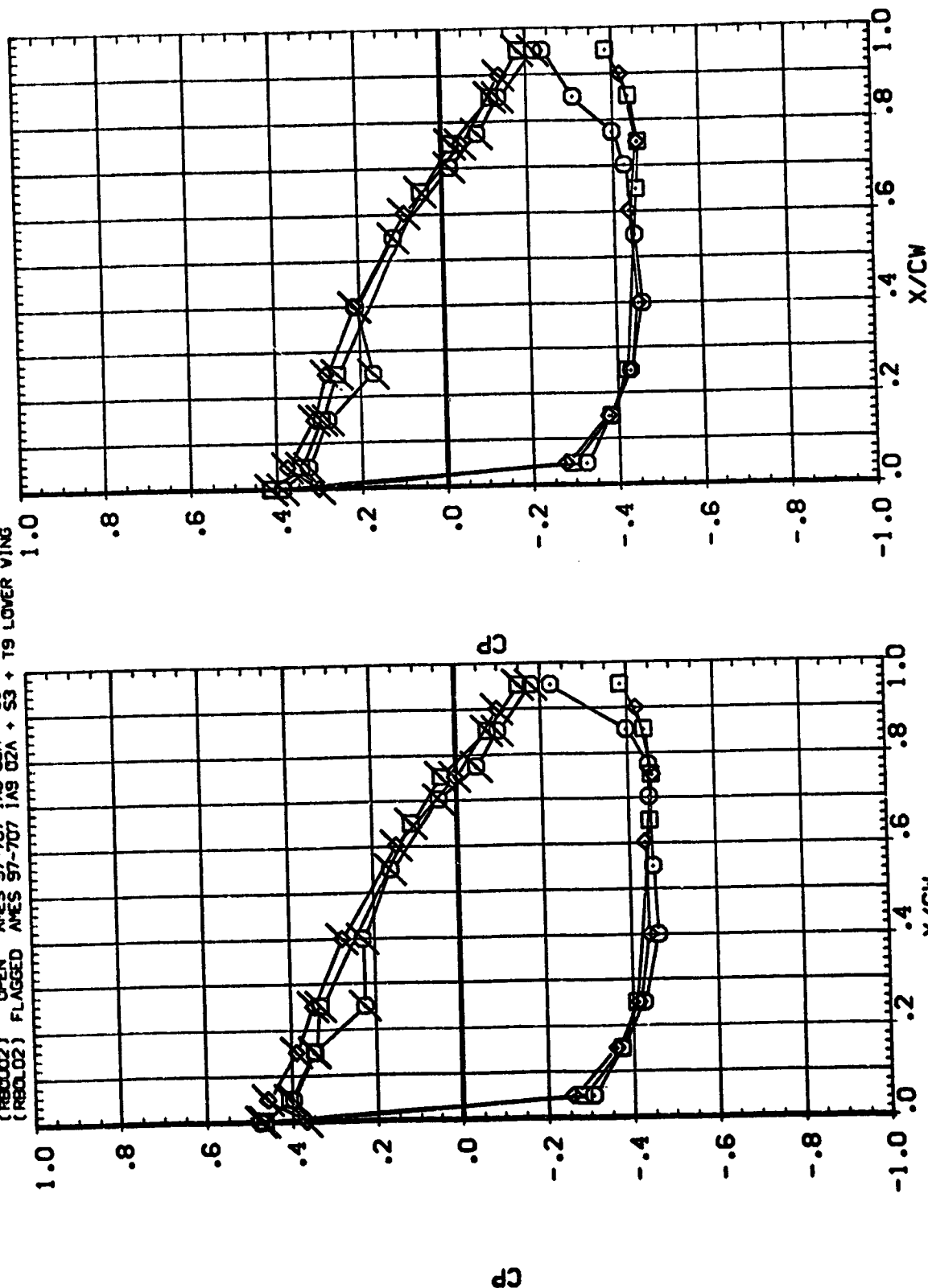
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL Y/BV
 □ .573
 □ .760
 ◇ .887

BETAT MACH
 7.140 1.555
 9.190

PARAMETRIC VALUES
 ALPHAT 8.000 ORBINC .500
 RUDDER .000 ELEVON .000
 RUOFLR .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBOLO2) OPEN AVES 97-707 1A9 OZA + S3 + T9 UPPER WING
 (RBOLO2) FLAGGED AVES 97-707 1A9 OZA + S3 + T9 LOWER WING





SYMBOL
 ○ □ ◇ △

Y/BN
 .299
 .364
 .427
 .534

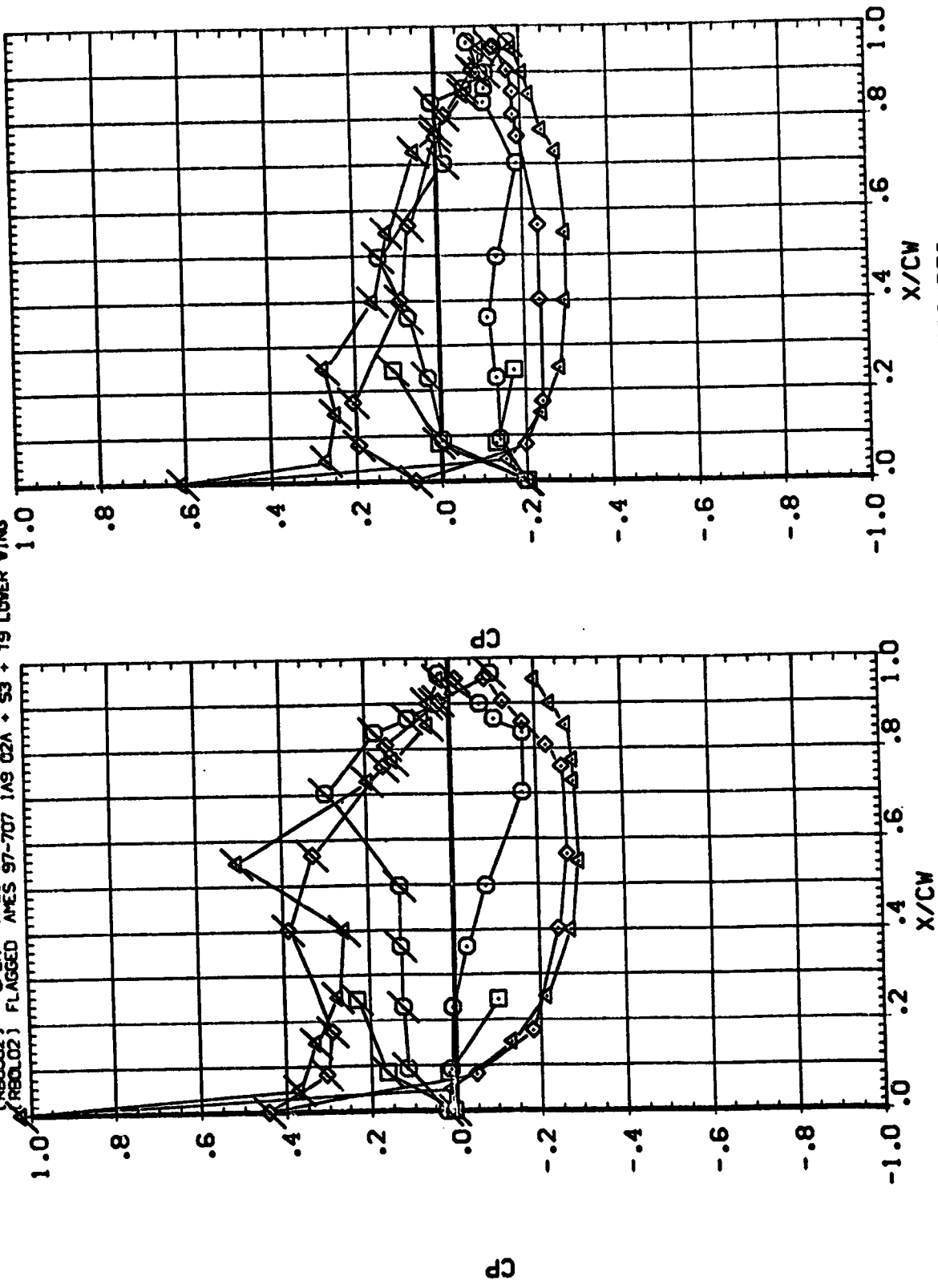
BETAT
 -6.270
 3.990

MACH
 2.000

PARAMETRIC VALUES
 ALPHAT 8.000
 RUDDER .000
 RUDFLR .000

.500
 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBDJ02) OPEN AMES 97-707 1A9 02A + S3 + 19 UPPER WING
 (RBDJ02) FLAGGED AMES 97-707 1A9 02A + S3 + 19 LOWER WING



PARAMETRIC VALUES

ALPHAT	9.000	ORBNIC	.500
RUDR	.000	ELEVON	.000
RUDFLR	.000		

BETAT

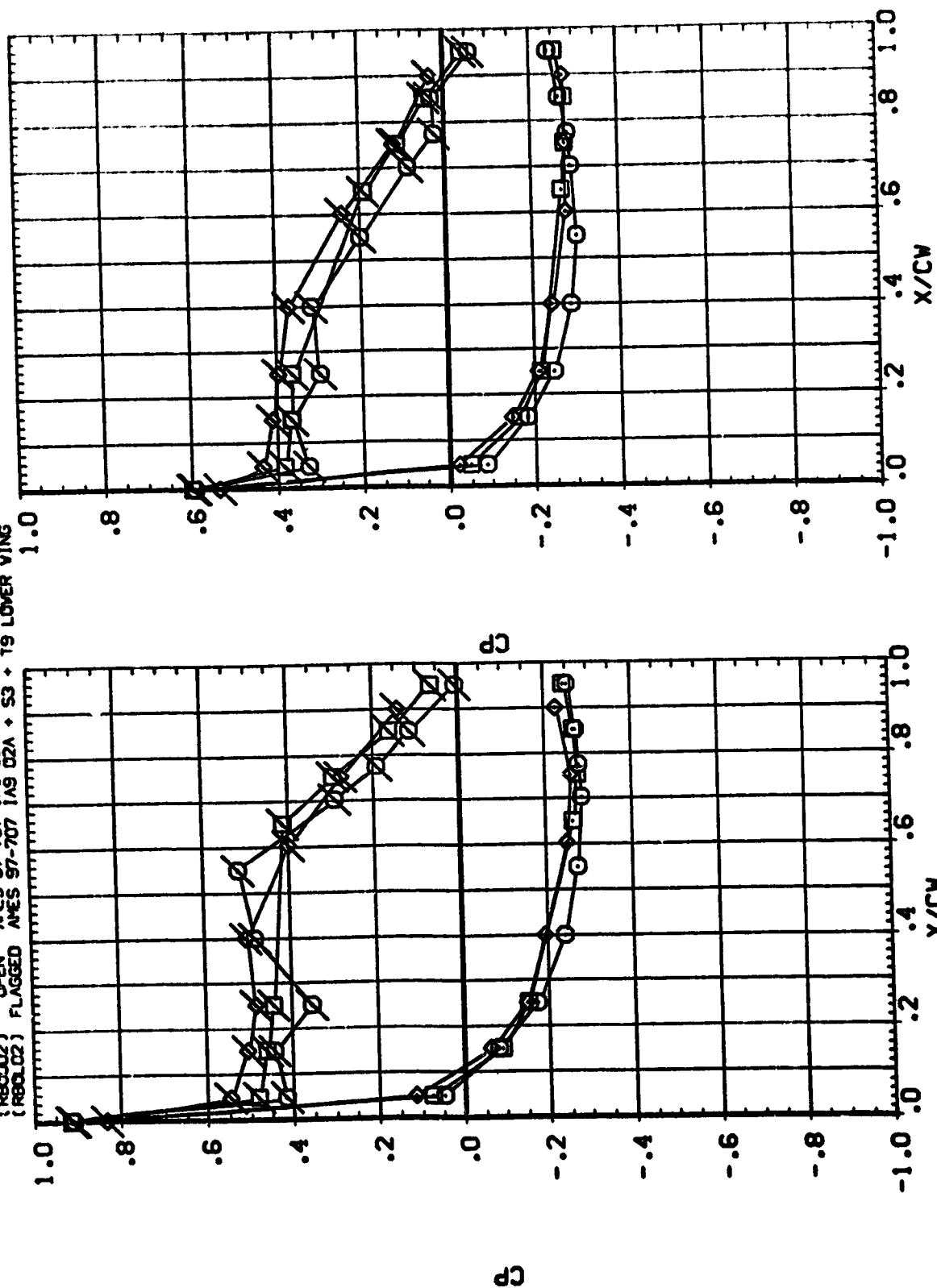
MACH	2.000
-6.270	
3.990	

Y/BN

.673
.780
.887

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RBDJ02)	OPEN	ANES 97-707 IAS 02A + S3 + T9 UPPER WING
(RBDJ02)	FLAGGED	ANES 97-707 IAS 02A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETRIC VALUES

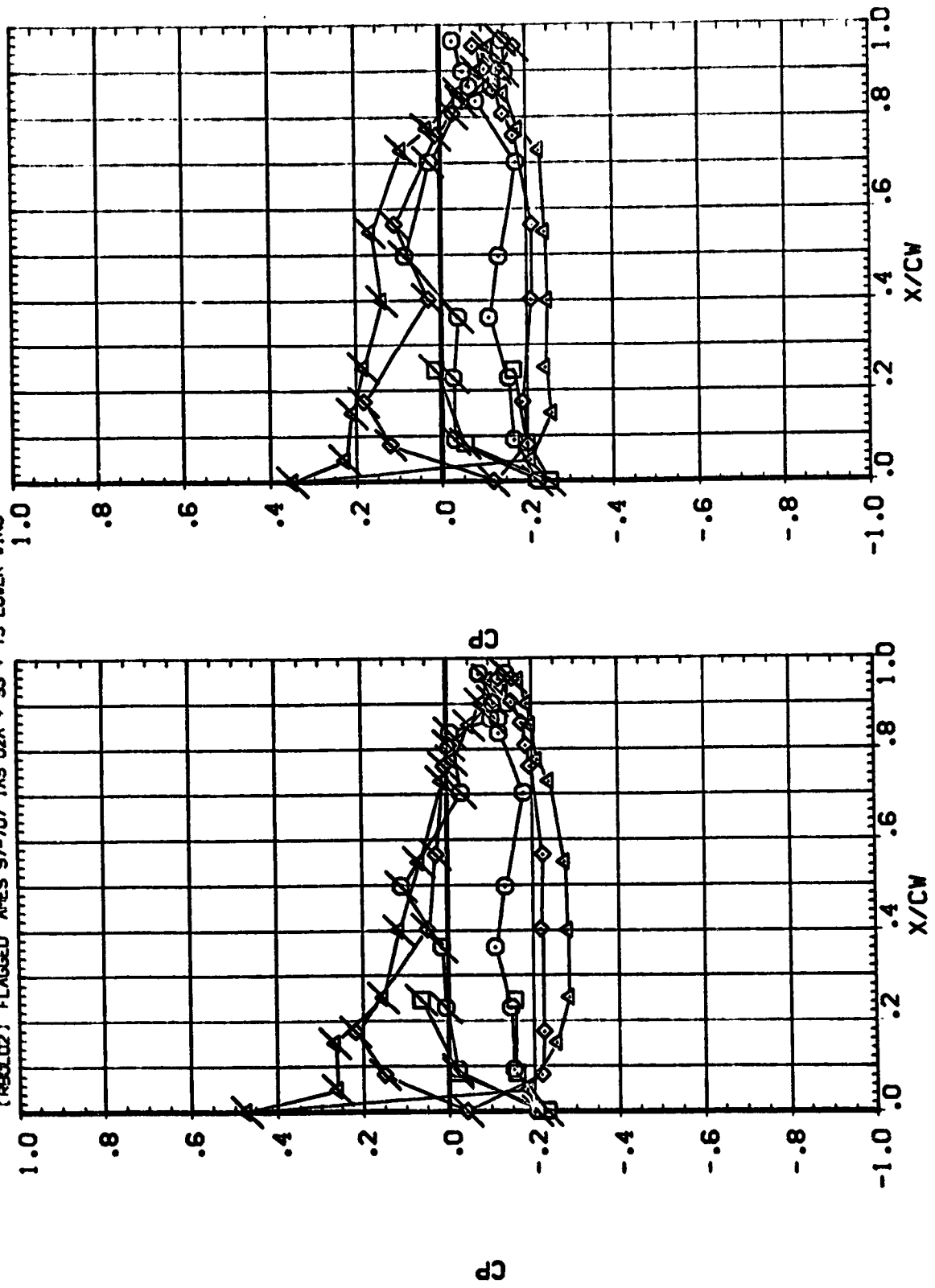
ALPHAT	8.000	ORBIT	.500
RUDDER	.000	ELEVON	.000
RUOFLR	.000		

SYMBOL Y/BV BETAT MACH

○	.299	6.050	2.000
□	.364	8.120	
◇	.427		
△	.534		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(REDUC2)	OPEN	AMES 97-707 IAS 02A + S3 + T9 UPPER VING
(REDUC2)	FLAGGED	AMES 97-707 IAS 02A + S3 + T9 LOWER VING



SYMBOL \square \diamond

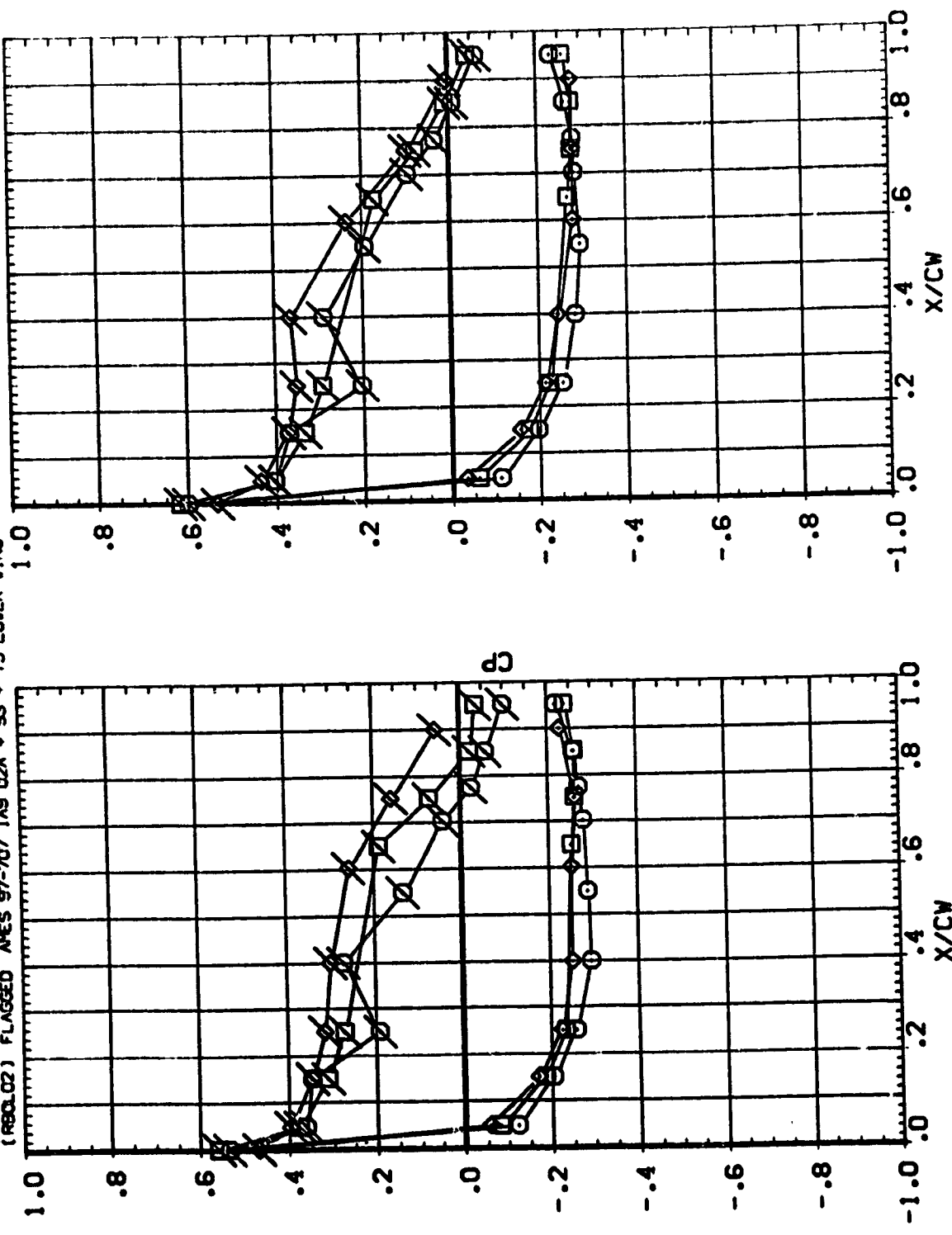
γ/δ .673
.780
.887

BETAT 6.060
8.120

MACH 2.000

PARAMETRIC VALUES
ALPHAT 8.000
RUDER .000
RUDFLR .000
ORBINC .500
ELEVON .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(R80J02) OPEN AYES 97-707 IAS 02A + S3 + T9 UPPER WING
(R80J02) FLAGGED AYES 97-707 IAS 02A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

III

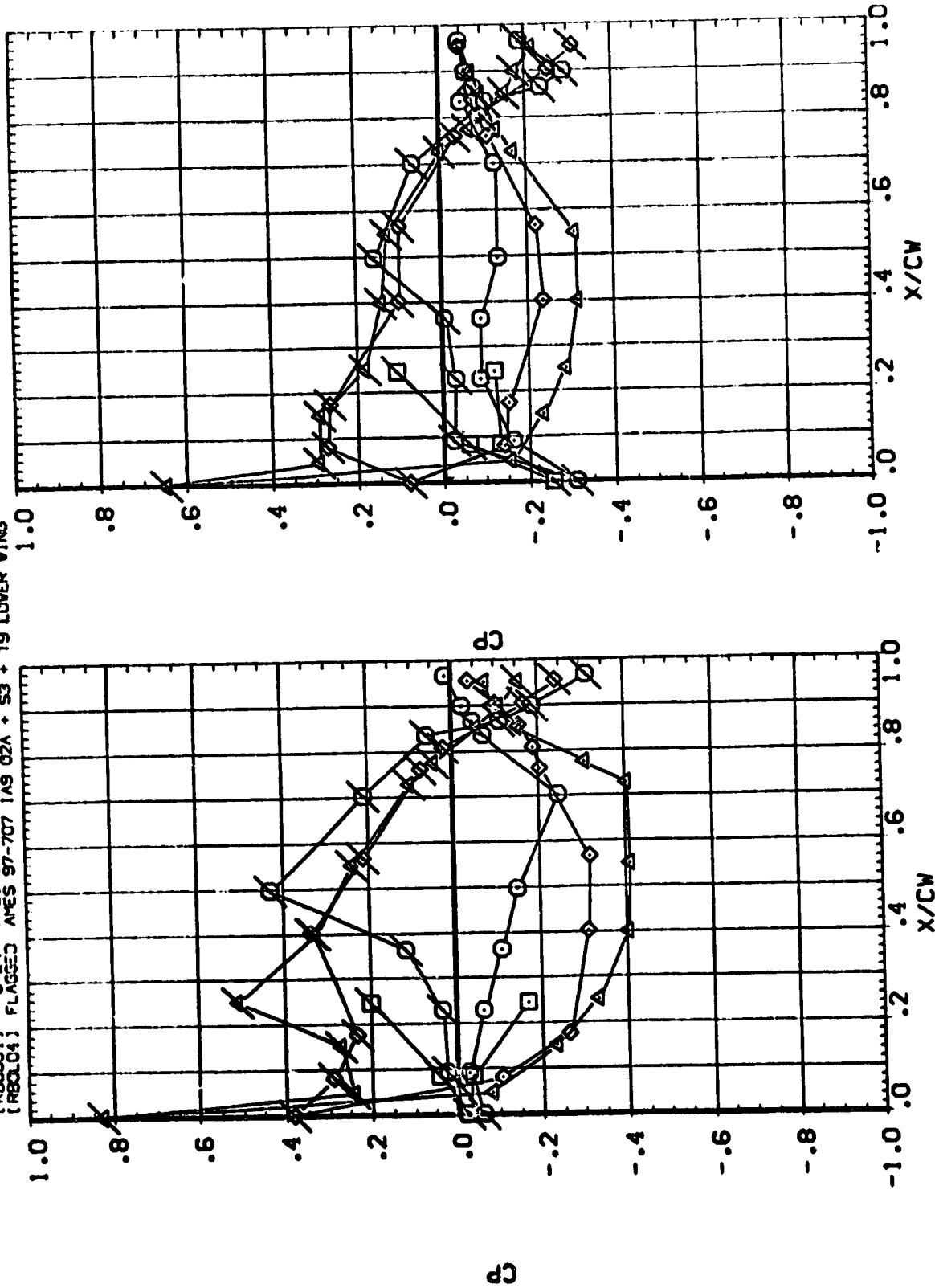
PARAMETRIC VALUES

ALPHAT	4.000	CRBINC	.500
RUDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

Y/BV	BETAT	MACH
.299	-5.070	1.555
.364	5.060	
.427		
.534		

AMES 97-707 IAS 02A + S3 + T9 UPPER VING
 (RBOL04) OPEN
 (RBOL04) FLAGGED AMES 97-707 IAS 02A + S3 + T9 LOWER VING



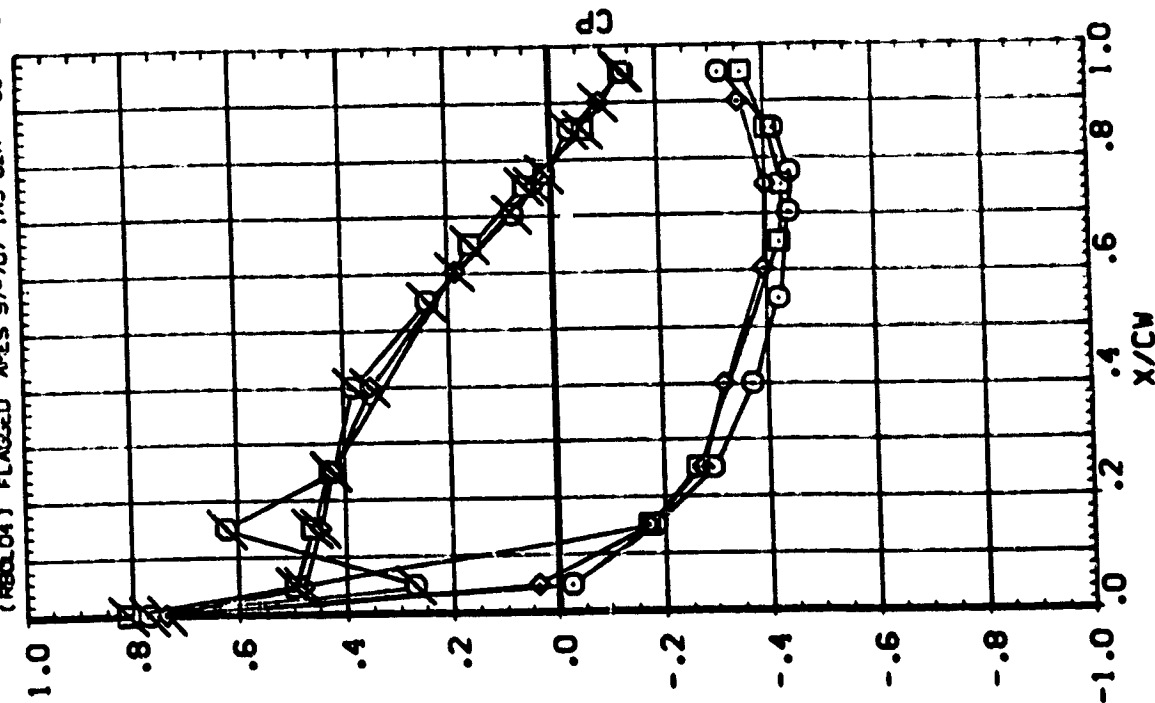
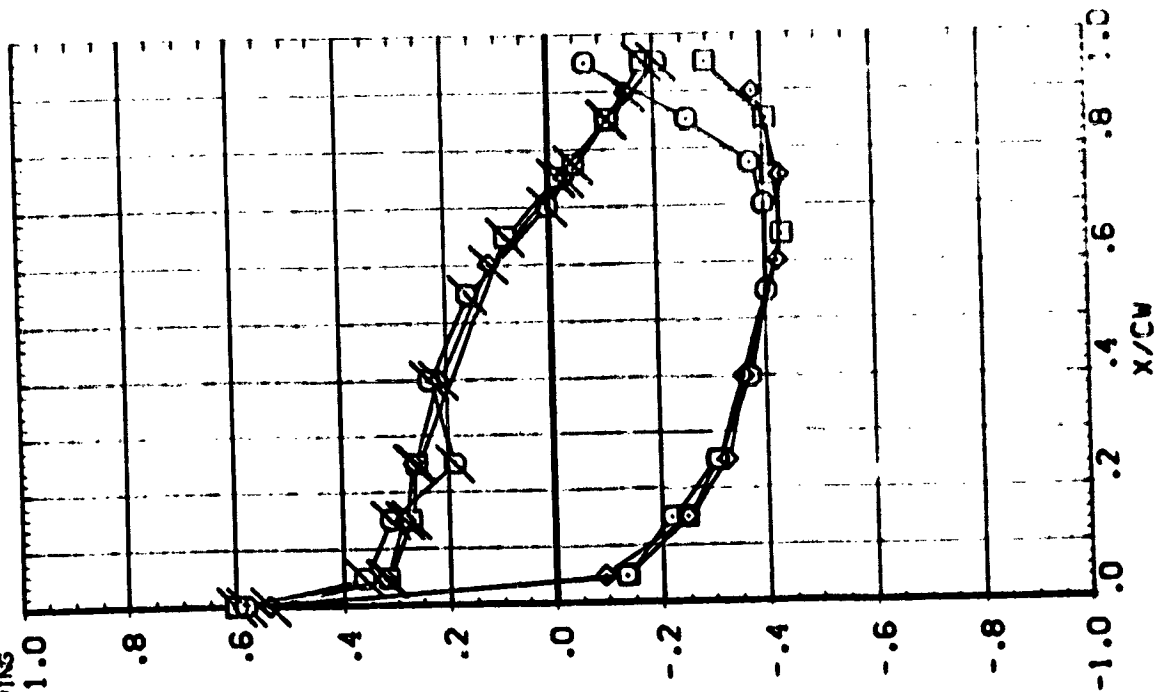
PARAMETRIC VALUES

ALPHA	4.000	OSBINC	.500
RUDDER	.000	ELEVON	.000
RUDDER	.000		

SYMBOL

1/8N	.673	BETAT	-5.070	MACH	1.555
	.780		5.060		
	.887				

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBDLO4) OPEN APES 97-707 IAS 02A + S3 : T9 UPPER WING
 (RBDLO4) FLAGGED APES 97-707 IAS 02A + S3 : T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

100

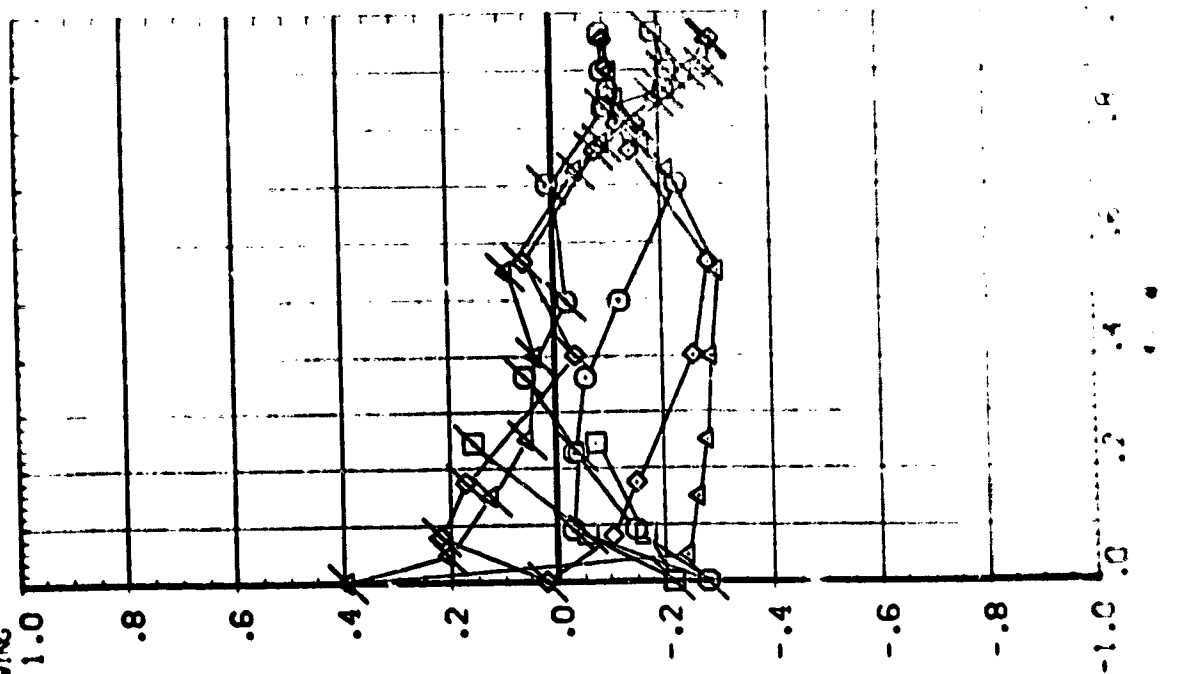
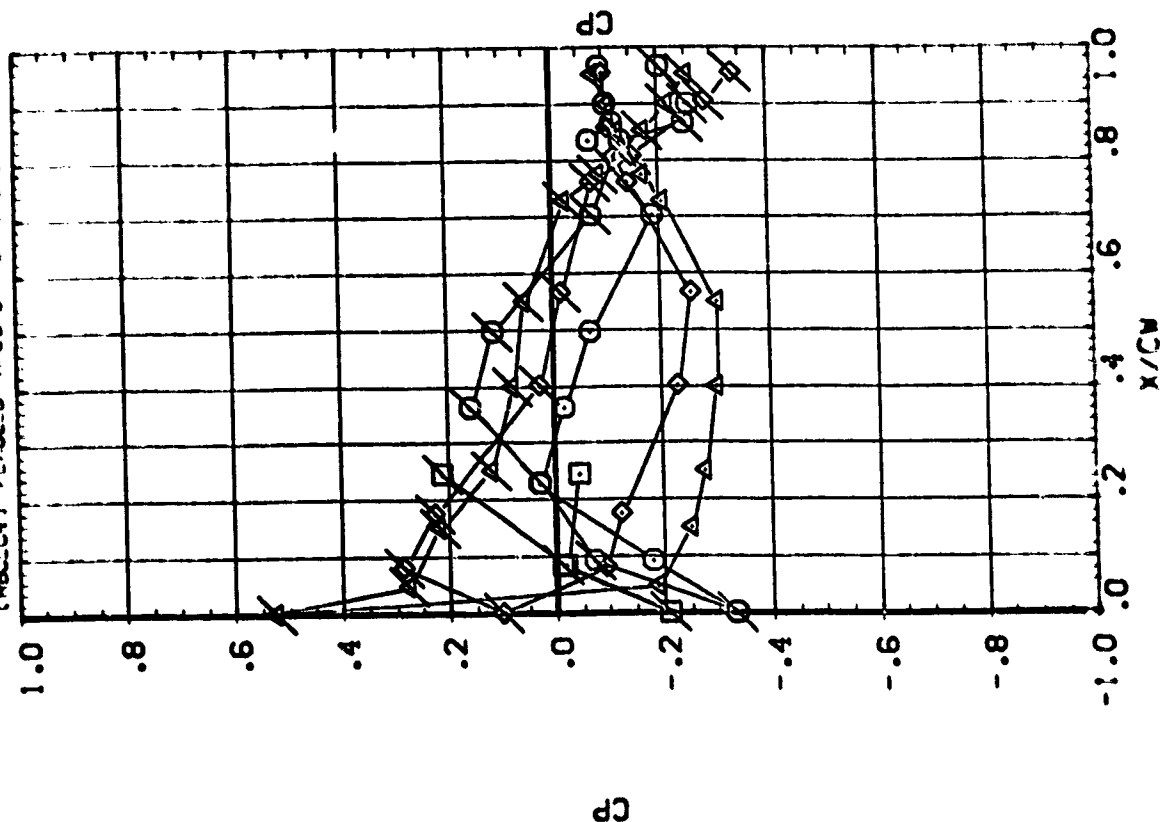
100-100000

SMC	VBN	BETA	MACH
1.555	7.080	1.555	

9.100
7.080
1.136

89
299
364
427
534

DATA SET	SYMBOL	CONFIDENCE	DESCRIPTION
(R000001)	OPEN	AVE\$ 97-757	19 27A • 53 • 79 LOWER WING
(R000001)	PLACED	AVE\$ 97-757	19 27A • 53 • 79 LOWER WING



STAFF AND STUDENTS DEMAND ENVIRONMENT FOR NON-DISCRIMINATORY POLICIES

PARAMETRIC VALUES

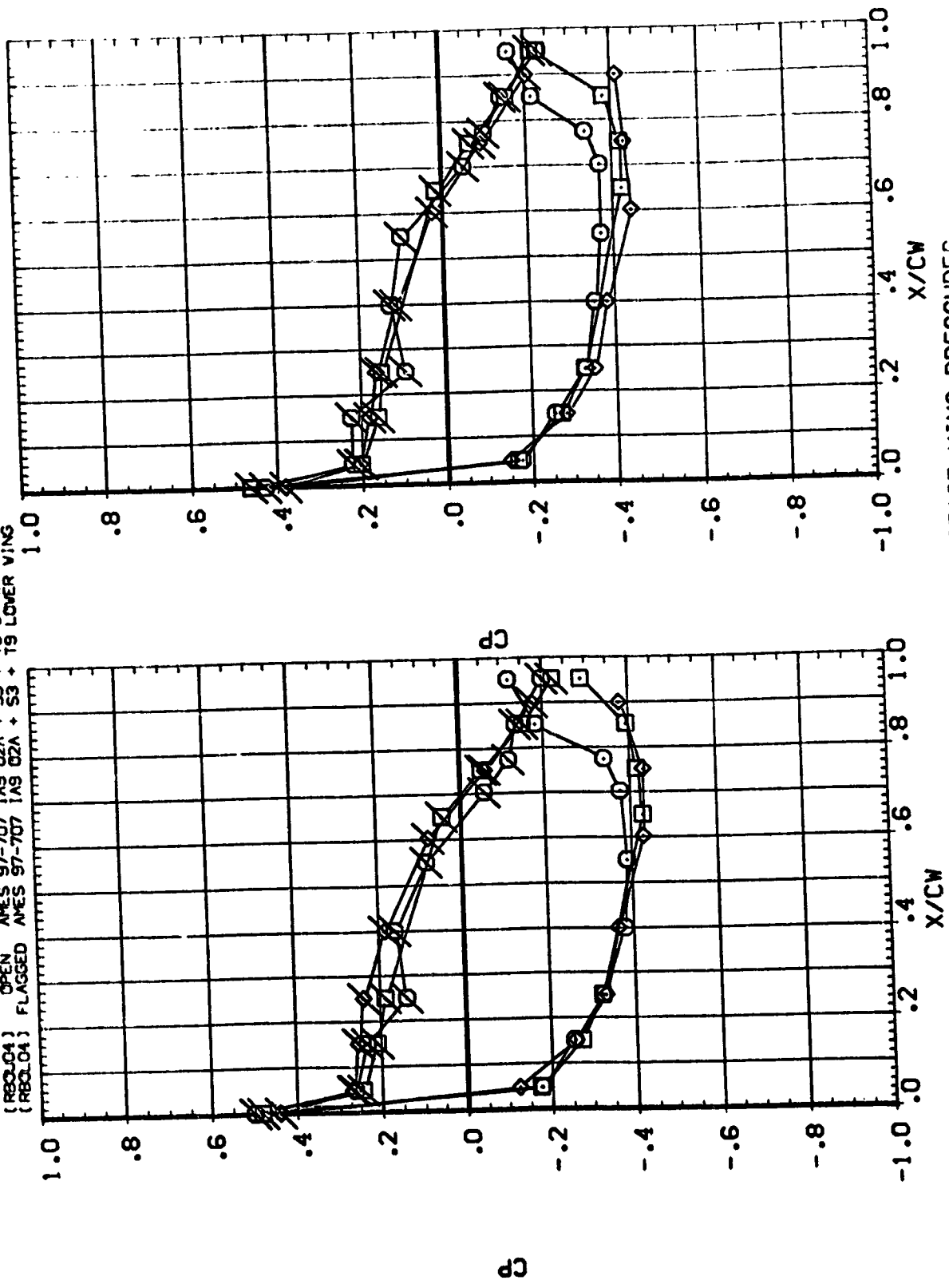
ALPHAT	4.000	0.000	0.500
RUDDER	.000	.000	.000
RUDELR	.000	.000	.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(R8004)	OPEN	AMES 97-707 1A9 02A + S3 + T9 UPPER WING
(R8004)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 LOWER WING

SYMBOL Y/BV BETAT MACH

◇	.673	7.080	1.555
□	.780	9.100	
◇	.887		



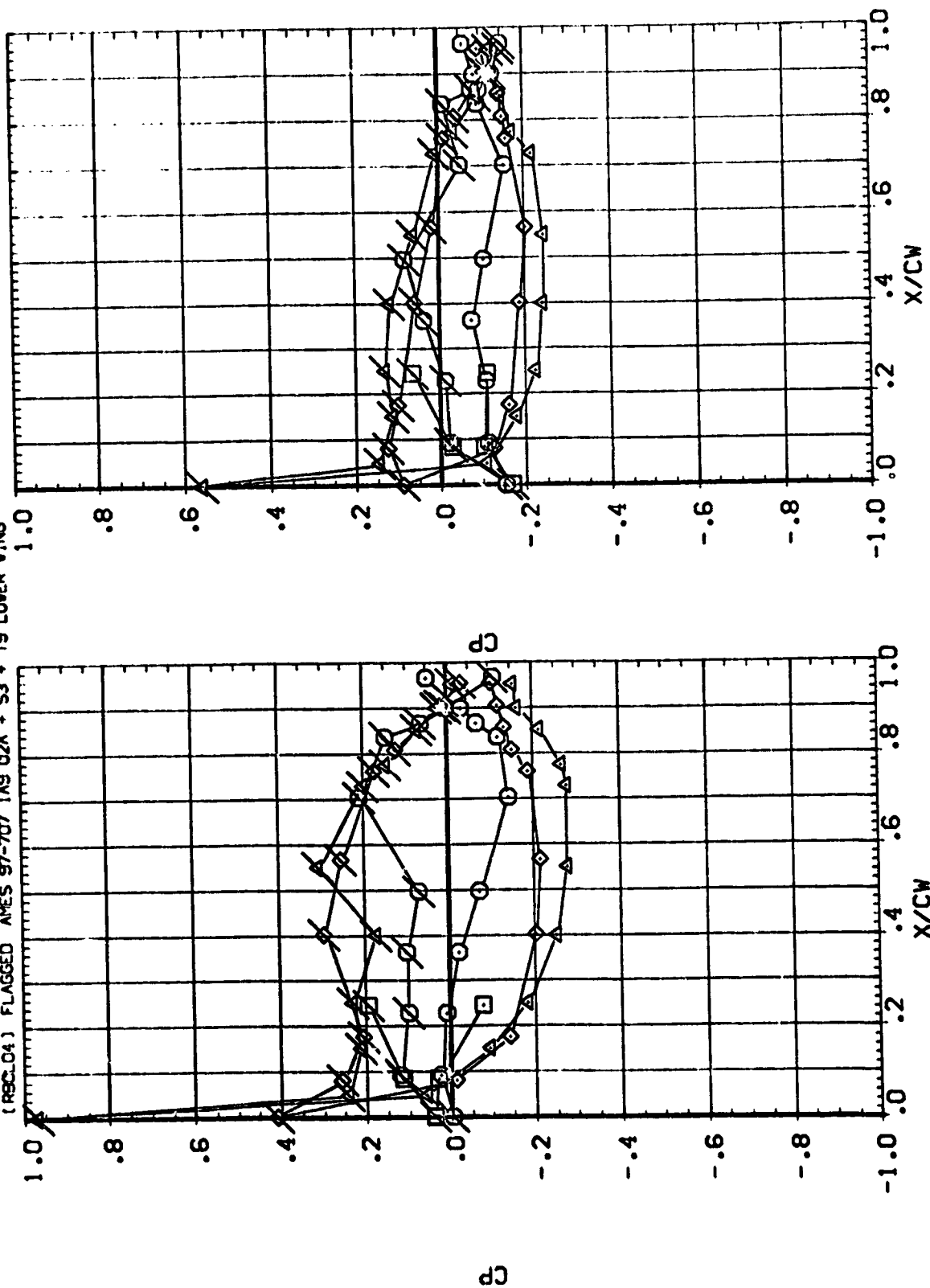
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL Y/BV
 ○ .299
 □ .364
 ◇ .427
 △ .534

BETAT MACH
 -6.240 2.000
 3.950

PARAMETRIC VALUES
 ALPHAT 4.000 CR9:NC .500
 RUDDER .000 ELEVON .000
 RUOFLR .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBCLO4) OPEN AMES 97-707 IAS 02A + S3 + 19 UPPER WING
 (RBCLO4) FLAGGED AMES 97-707 IAS 02A + S3 + 19 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETRIC VALUES

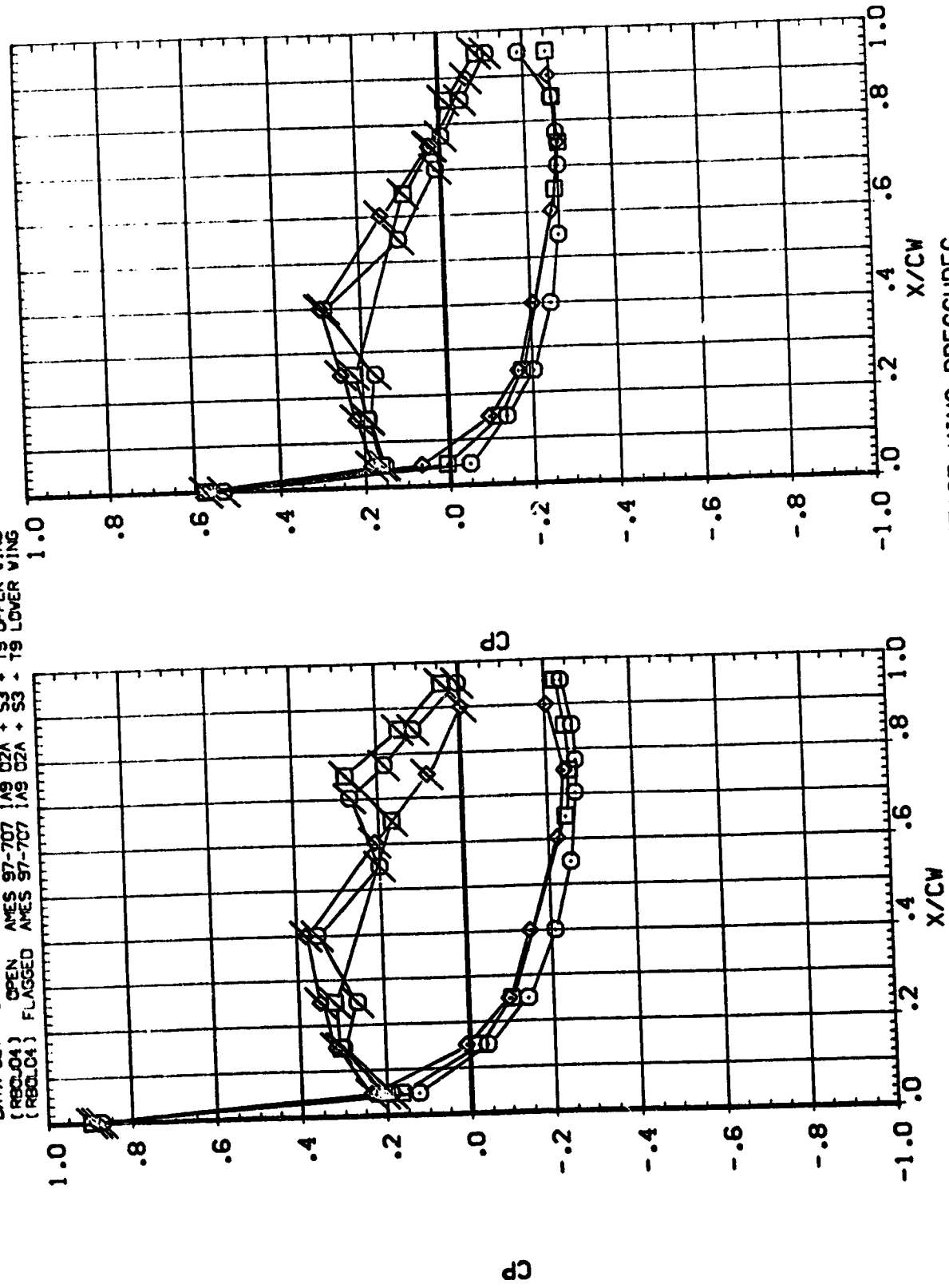
ALPHAT	4.000	DRBINC	.500
RUDGER	.000	ELEVON	.000
RUDFLR	.000		

SYMBOL

Y/BV	BETAT	MACH
.673	-6.240	2.000
.780	3.950	
.887		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RBL04)	OPEN	AMES 97-707 IAS 02A + S3 + T9 UPPER WING
(RBL04)	FLAGGED	AMES 97-707 IAS 02A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES



SYMBOL
 ○ □ ◇ △

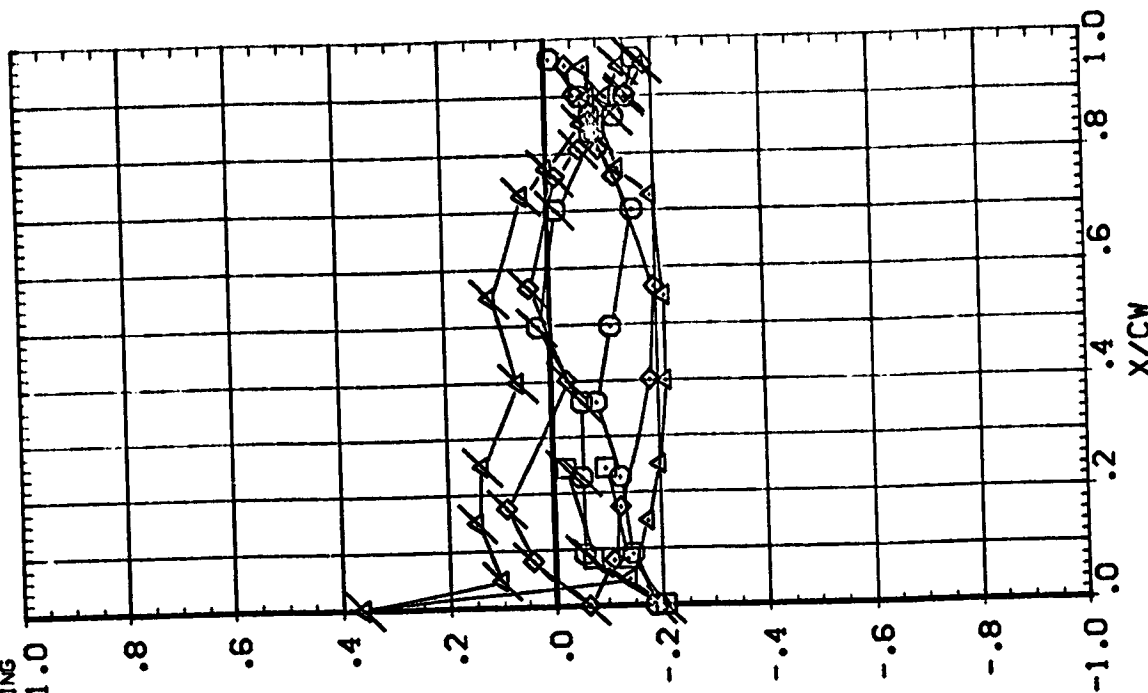
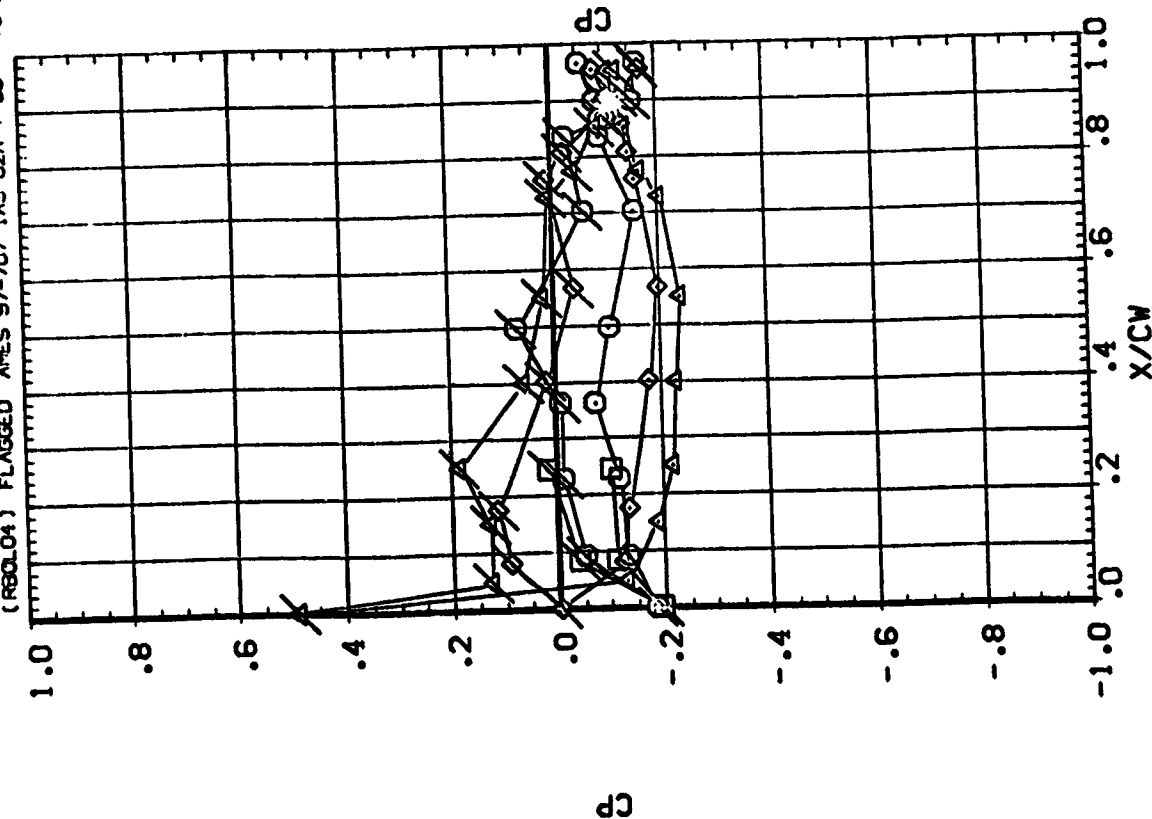
Y/BV
 .298
 .364
 .427
 .534

BETAT
 5.990
 8.030

MACH
 2.000

PARAMETRIC VALUES
 ALPHAT 4.000 ORBINC .500
 RUDER .000 ELEVON .000
 RUC_R .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBL04) OPEN AMES 97-707 1A9 02A + S3 + T9 UPPER WING
 (RBL04) FLAGGED AMES 97-707 1A9 02A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETRIC VALUES

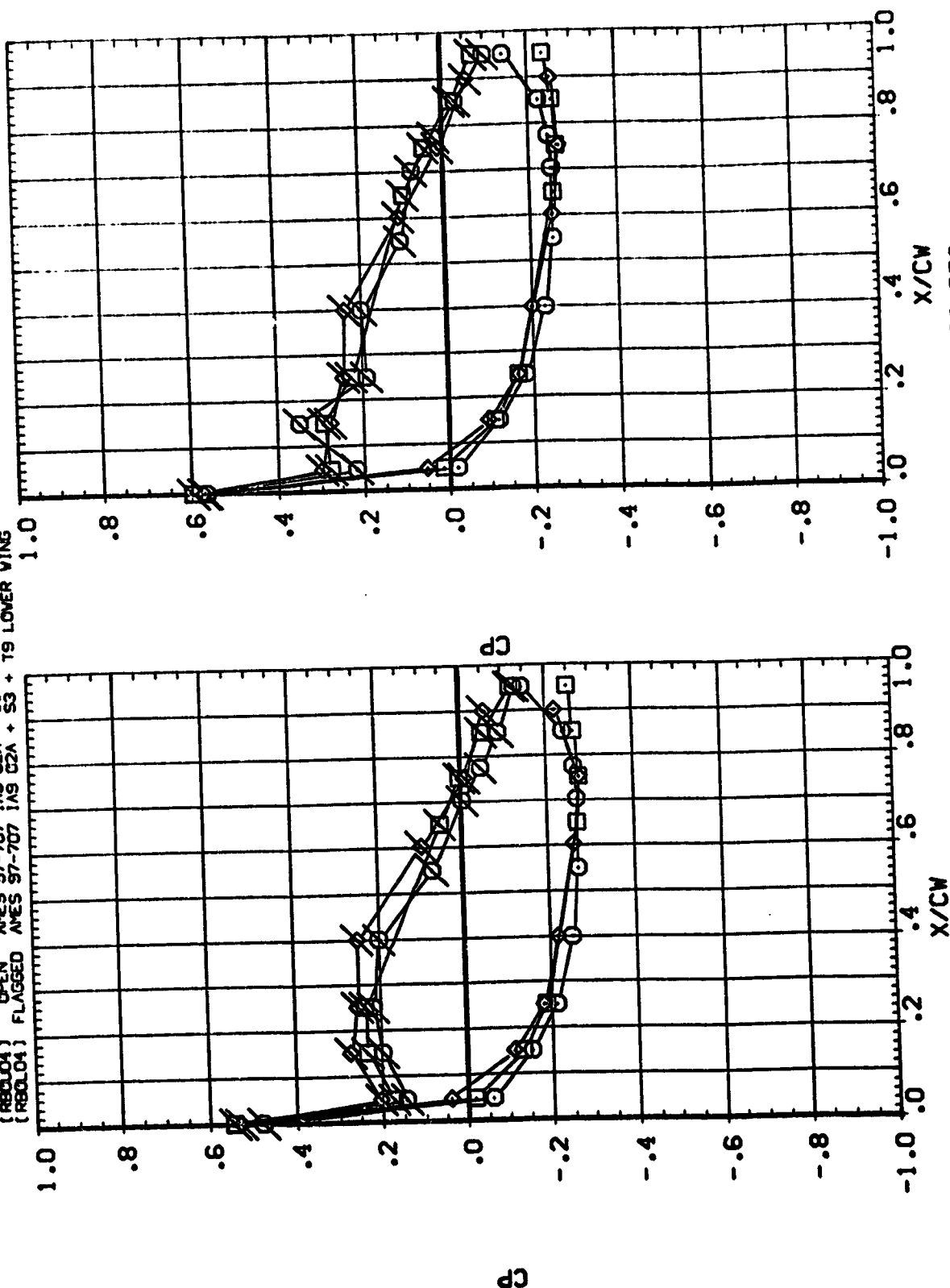
ALPHAT	4.000	ORBITC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

SYMBOL

Y/BV	BETAT	MACH
.673	5.990	2.000
.780	8.030	
.887		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

[RBDLO4]	OPEN	AMES 97-707 IAS 02A + S3 + T9 UPPER WING
[RBDLO4]	FLAGGED	AMES 97-707 IAS 02A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETRIC VALUES

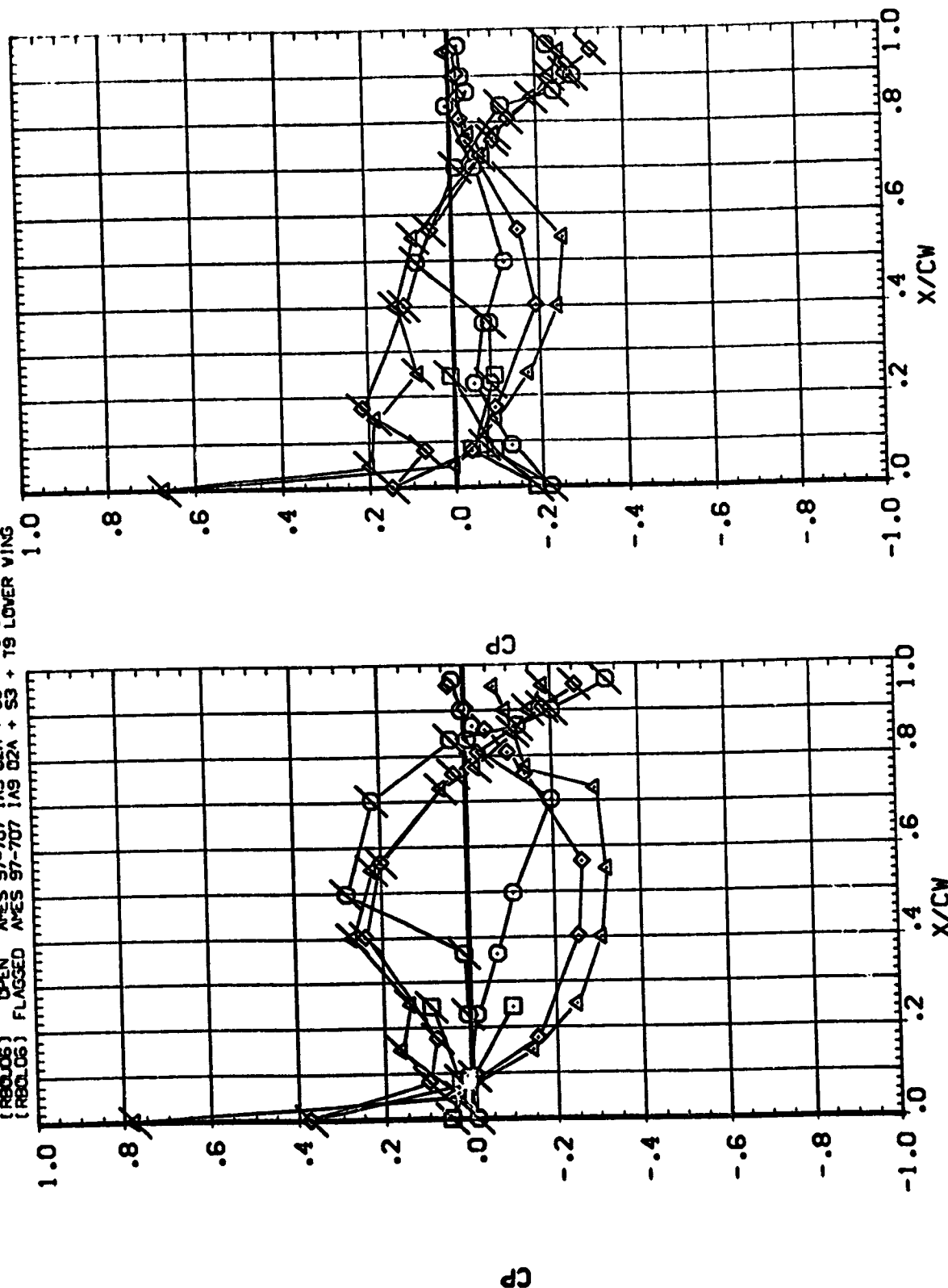
ALPHAT	.000	ORBNIC	.000
RUDDER	.000	ELEVON	.000
RJFLR	.000		

SYMBOL

Y/BV	BETAT	MACH
.299	-5.080	1.555
.364	5.050	
.427		
.534		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RBDLOS)	OPEN	AVES 97-707 IAG 02A + S3 + T9 UPPER VING
(RBDLOS)	FLAGGED	AVES 97-707 IAG 02A + S3 + T9 LOWER VING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETRIC VALUES

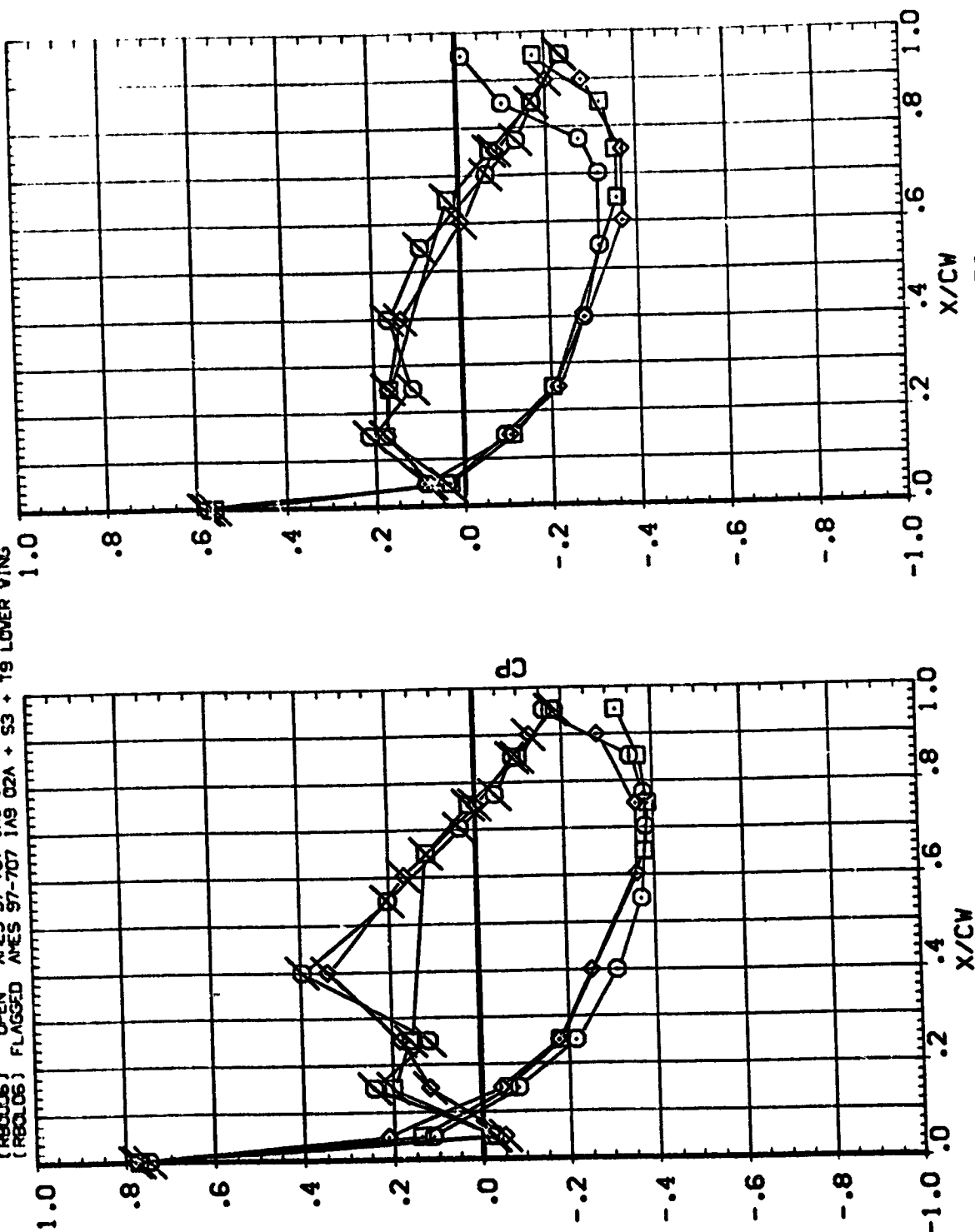
ALPHAT	.000	DRBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

SYMBOL Y/BN BETAT MACH

○	.673	-5.080	1.555
□	.780	5.050	
◇	.887		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RBOLOS)	OPEN	AVES 97-707 1A9 02A + S3 + T9 UPPER VING
(RBOLOS)	FLAGGED	AVES 97-707 1A9 02A + S3 + T9 LOWER VING



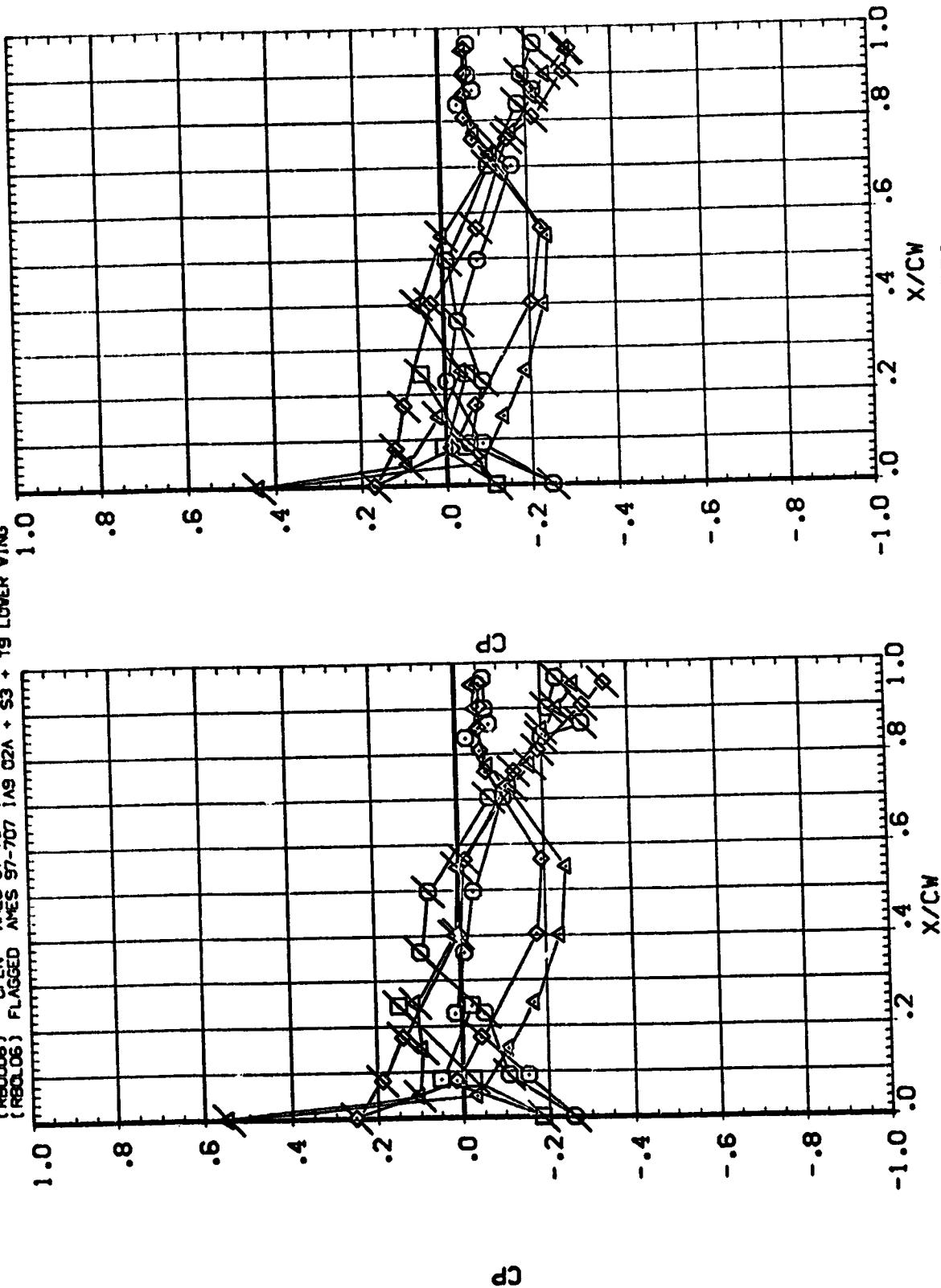
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL Y/BV
 .299
 .364
 .427
 .534

BETAT MACH
 7.060 1.555
 9.090

PARAMETRIC VALUES
 ALPHA1 .000 ORBINC .500
 R100R .000 ELEVON .000
 R100FLR .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (R800S) OPEN AMES 97-707 1A9 02A + S3 + T9 UPPER WING
 (R800S) FLAGGED AMES 97-707 1A9 02A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETRIC VALUES

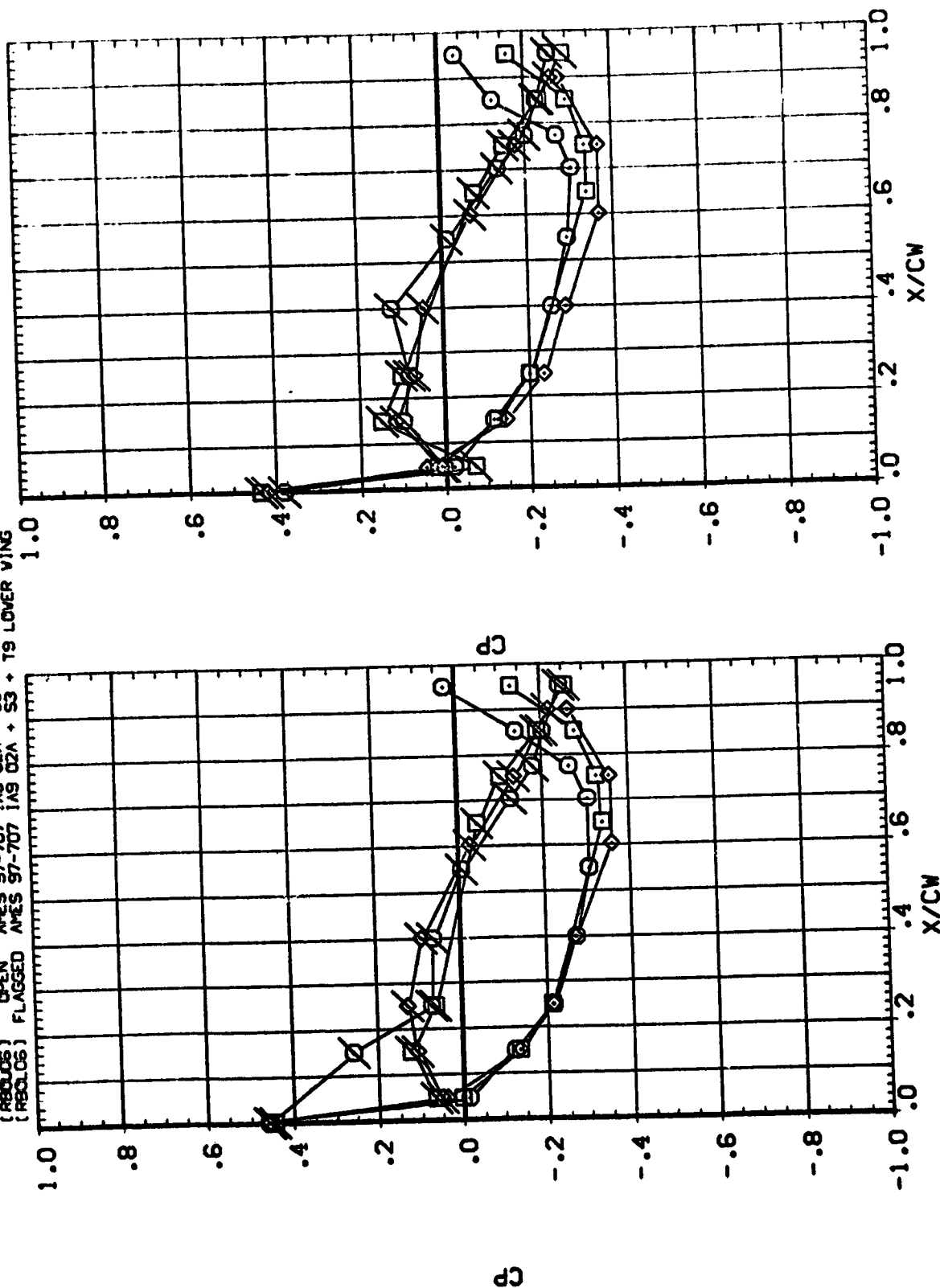
ALPHAT	.000	OSBINC	.500
RUDDER	.000	ELEVON	.000
RUOFLR	.000		

SYMBOL Y/BV BETAT MACH

○	.673	7.060	1.555
□	.780	9.090	
◇	.887		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RBOLOS)	OPEN	AMES 97-707 IAS 02A + S3 + T9 UPPER VING
(RBOLOS)	FLAGGED	AMES 97-707 IAS 02A + S3 + T9 LOWER VING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

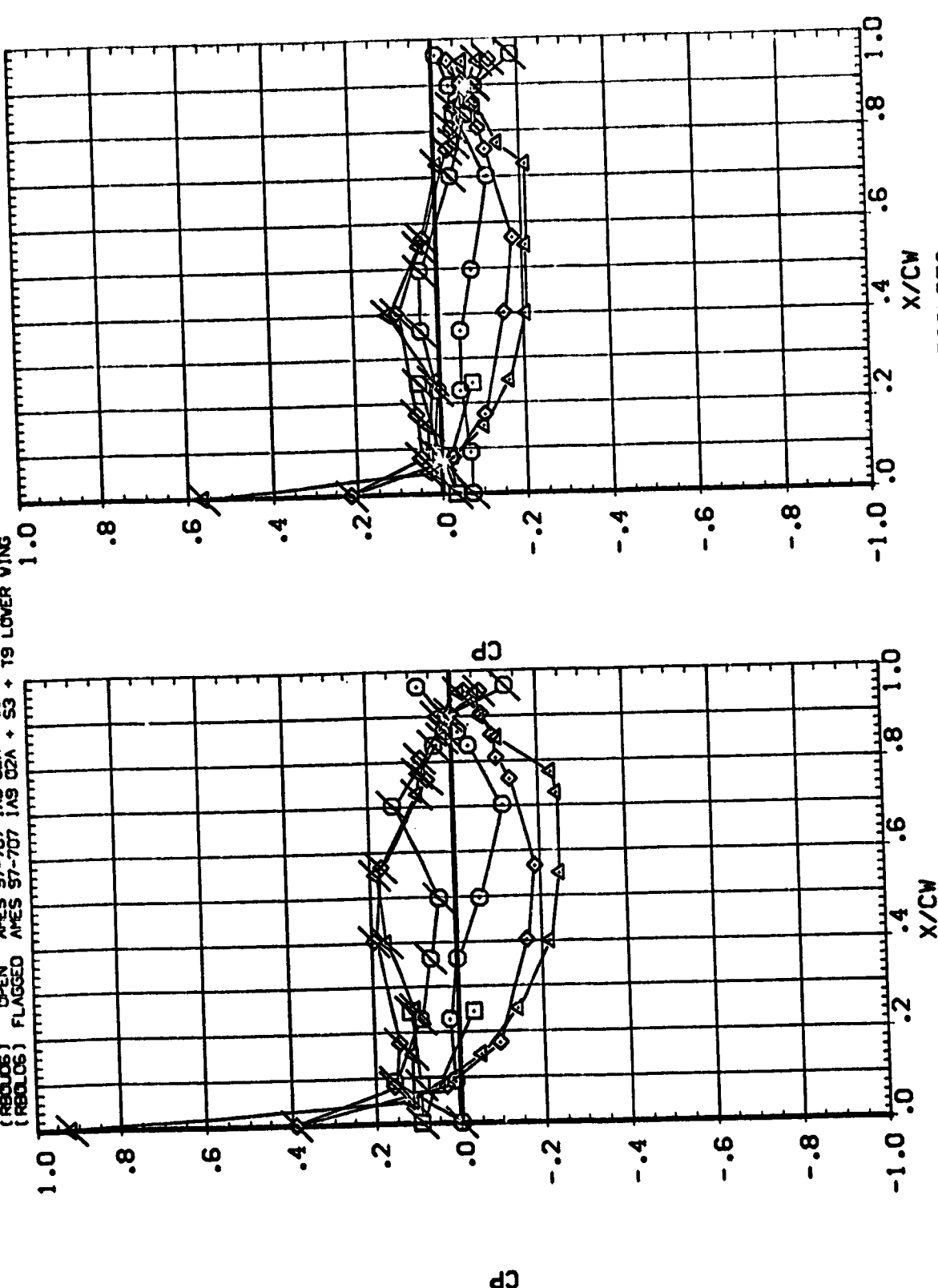
III

SYMBOL V/BV
 .299
 .364
 .427
 .534

BETAT MACH
 -6.250 2.000
 -.130

PARAMETRIC VALUES
 ALPHAT .000 ORBINC .500
 RUDER .000 ELEVON .000
 RUDFLR .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBOLOS) OPEN APES 97-707 1A9 02A + S3 + T9 UPPER WING
 (RBOLOS) FLAGGED APES 97-707 1A9 02A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

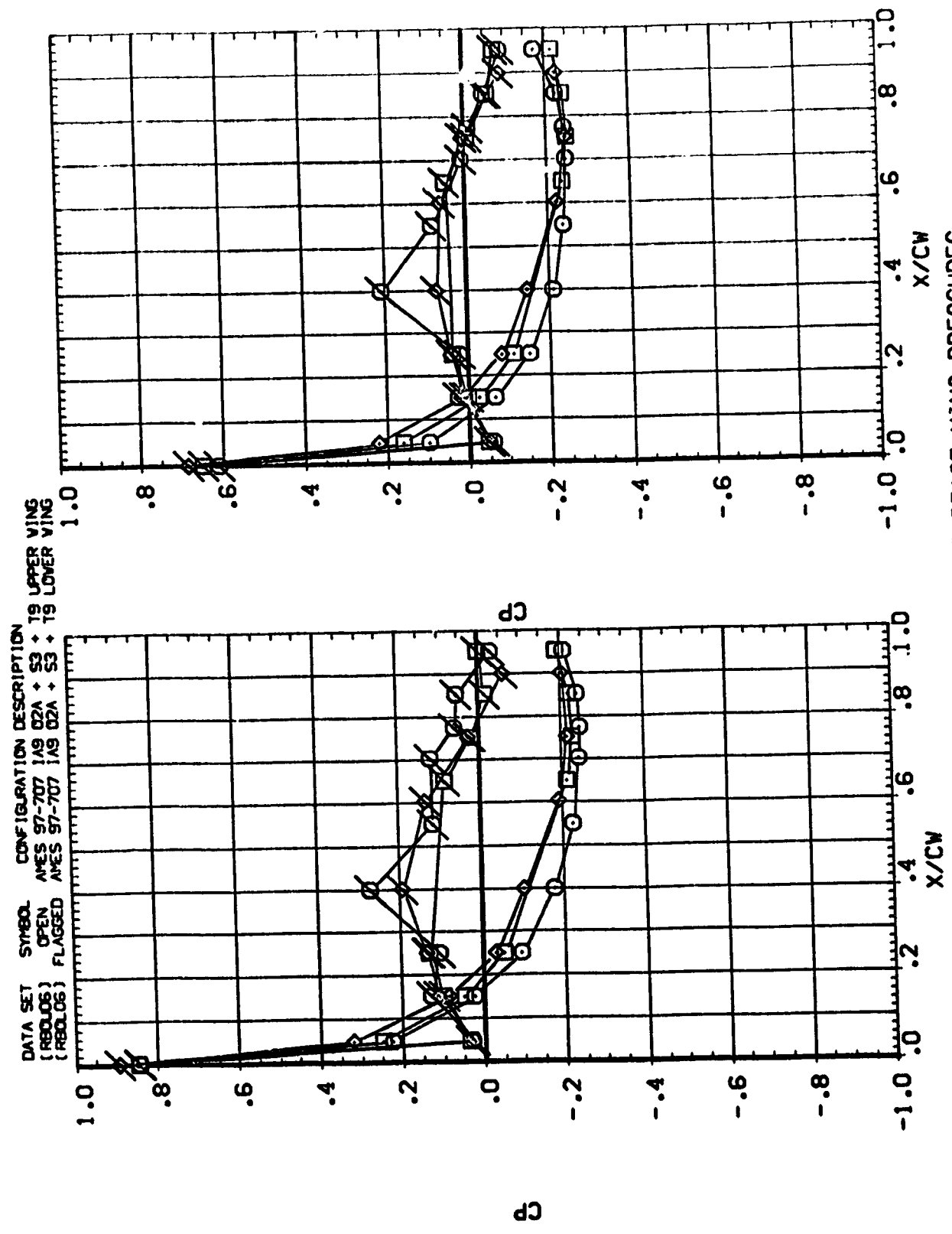
PARAMETRIC VALUES

ALPHAT	.000	ORBNIC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

SYMBOL

Y/BN	BETAT	MACH
.673	-6.250	2.000
.780	-.130	
.887		

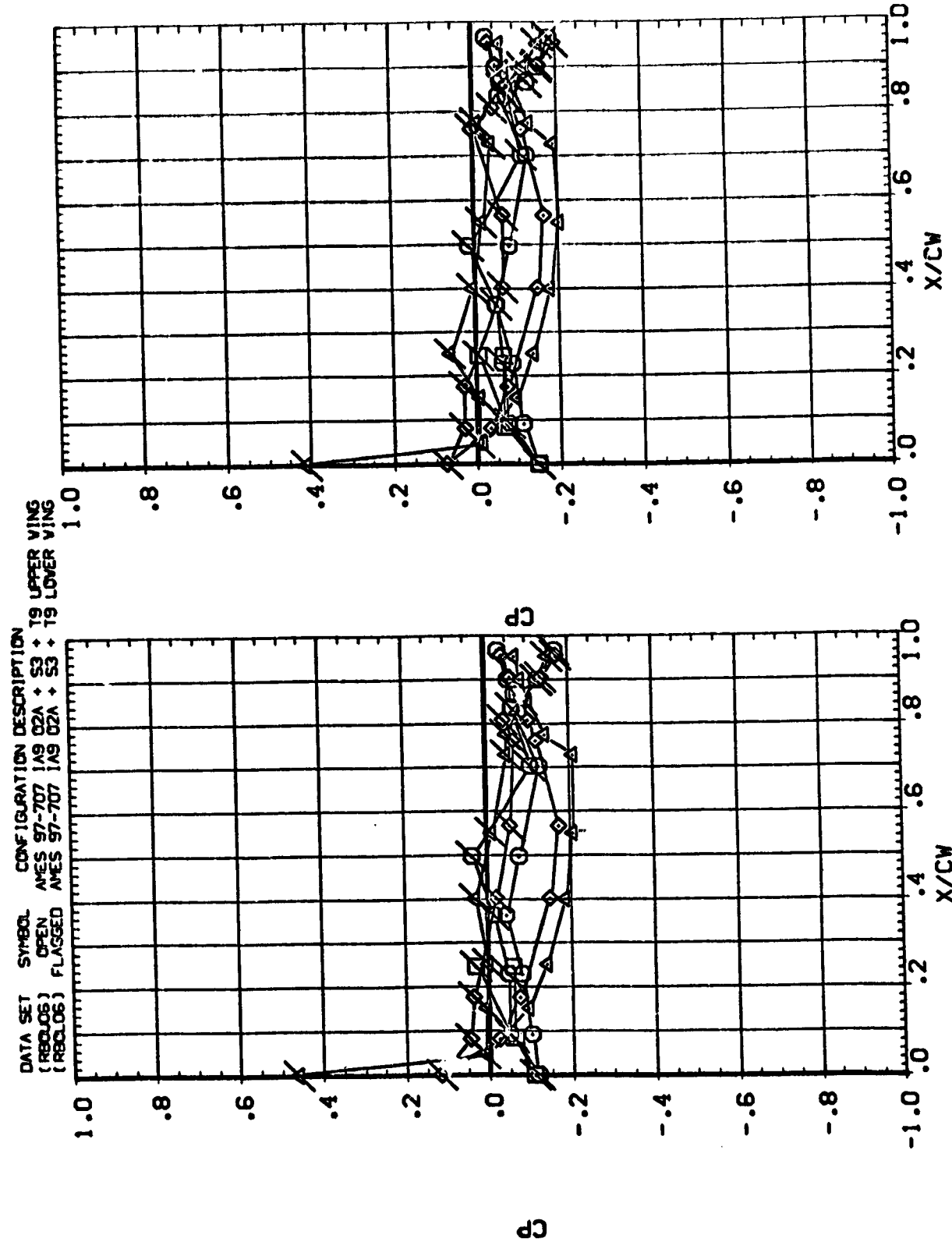
○ OPEN
 □ FLAGGED
 ◇ UPPER VING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES



SYMBOL	Y/BV	BETAT	MACH	PARAMETRIC VALUES
○	.299	3.950	2.000	ALPHAT .500
□	.364	5.980		DRBINC .000
◇	.427			RUDDER .000
△	.534			ELEVON .000
				RUDFLR .000



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETRIC VALUES

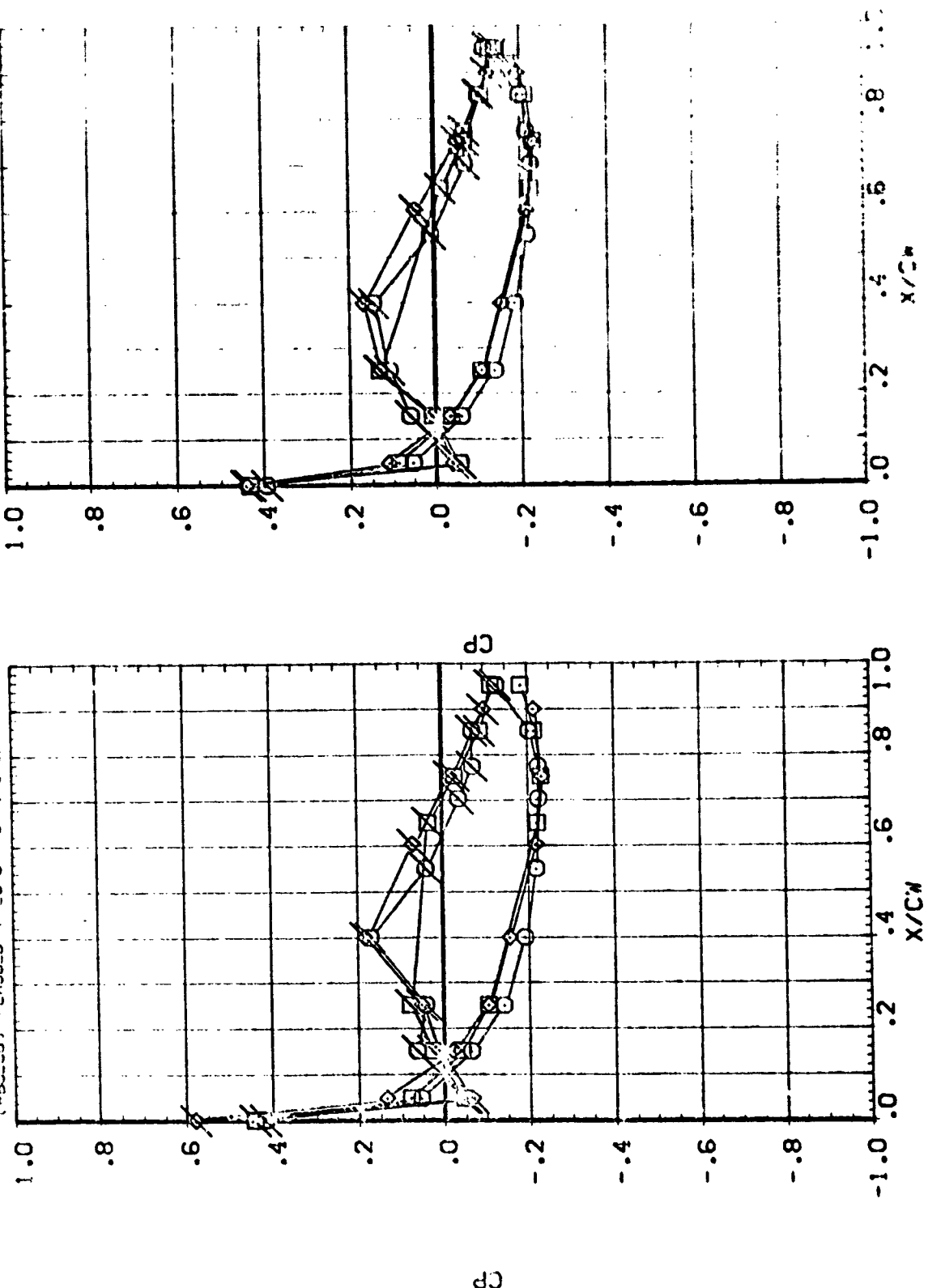
ALPHA: .000 .09142 .500
 RUDDER: .000 .000 .000
 RUDDER: .000 .000 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(PBC-06) OPEN AMES 97-707 : A9 02A + S3 + T9 UPPER WING
 (PBC-06) FLAGGED AMES 97-707 : A9 02A + S3 + T9 LOWER WING

SYMBOL 1/BN BETAT MACH

○ .673 3.950 2.000
 □ .780 5.980
 ◇ .887



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETRIC VALUES

ALPHAT	ALPHA	0.500
RUDDER	DRBINC	0.000
RJCFLR	ELEVON	0.000

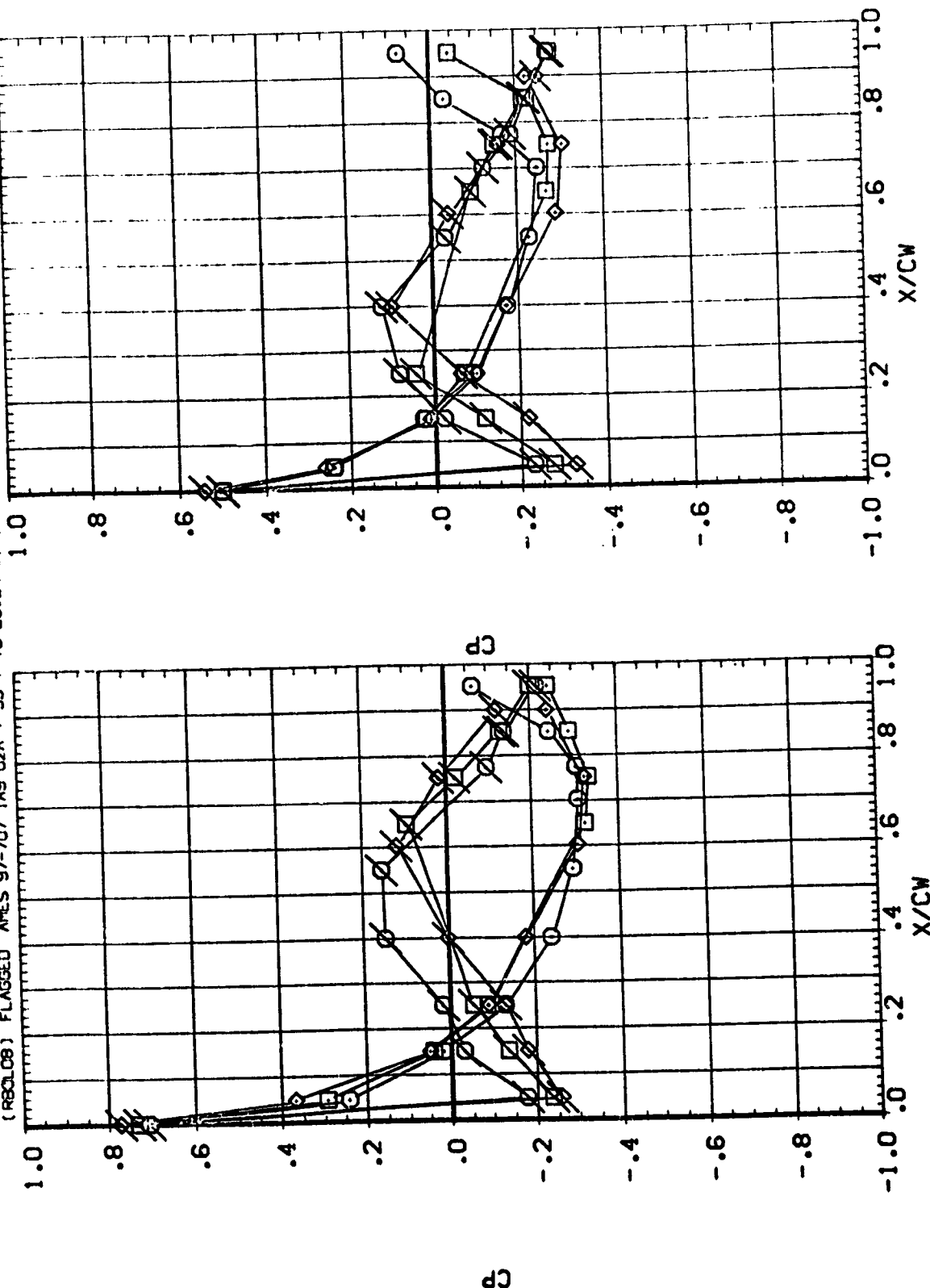
DATA SET SYMBOL CONFIGURATION DESCRIPTION

(R8Q108)	OPEN	AMES 97-707 1A9 02A + S3 + 19 UPPER WING
(R8Q108)	FLAGGED	AMES 97-707 1A9 02A + S3 + 19 LOWER WING

Y/BV .673
 .780
 .887

BETAT -6.150
 5.030

MACH 1.555



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL
 ○ □ ◇ △

Y/BV .299
 .364
 .427
 .534

BETAT 7.05C
 9.070

MACH 1.555

PARAMETRIC VALUES

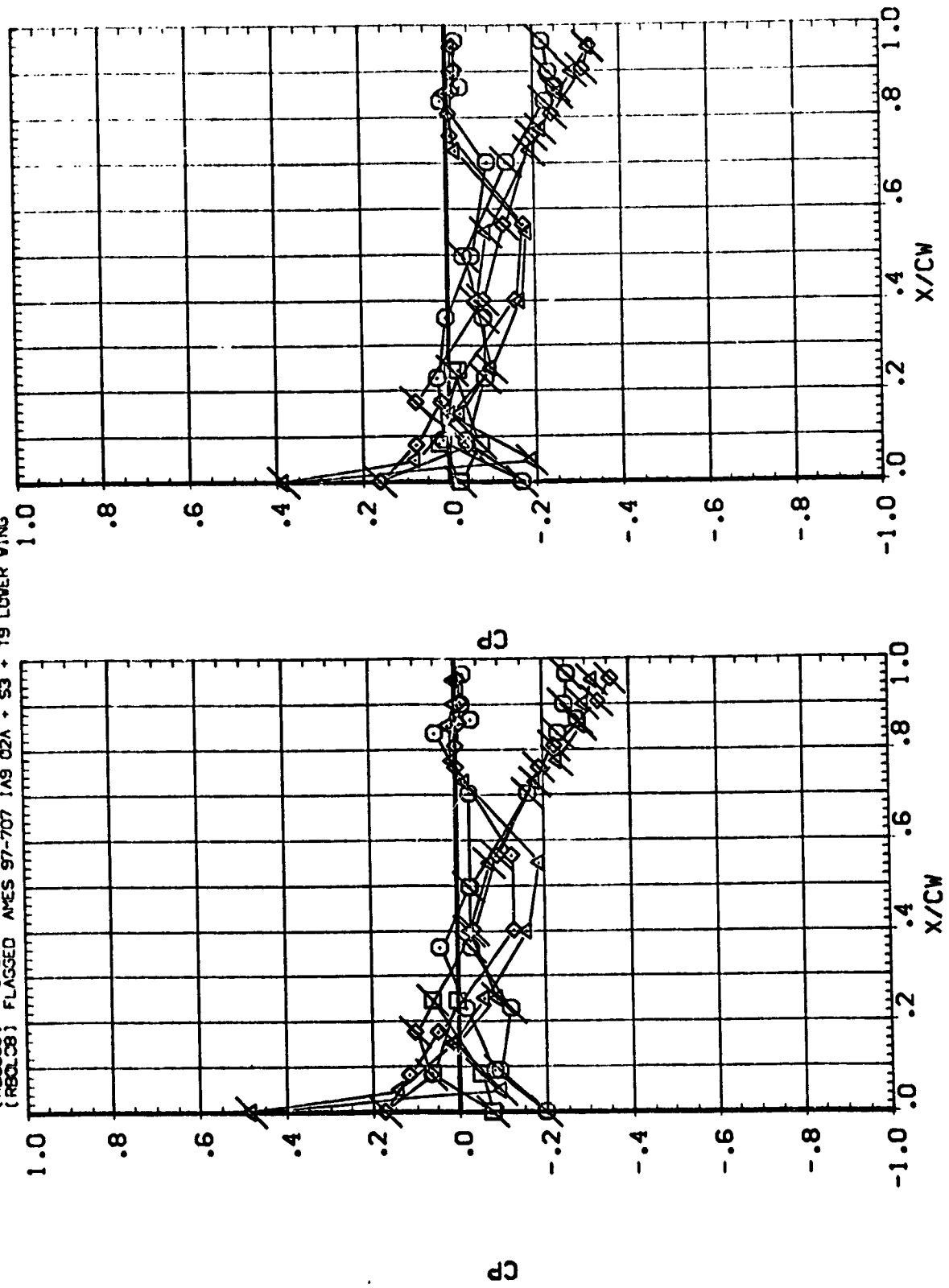
ALPHAT -4.000
 RUDDER .000
 RUOFLR .000

CS3:NC .500
 ELEVON .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RBL08) OPEN AMES 97-707 1A9 02A + S3 + T9 UPPER WING

(RBL08) FLAGGED AMES 97-707 1A9 02A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES.

PARAMETRIC VALUES

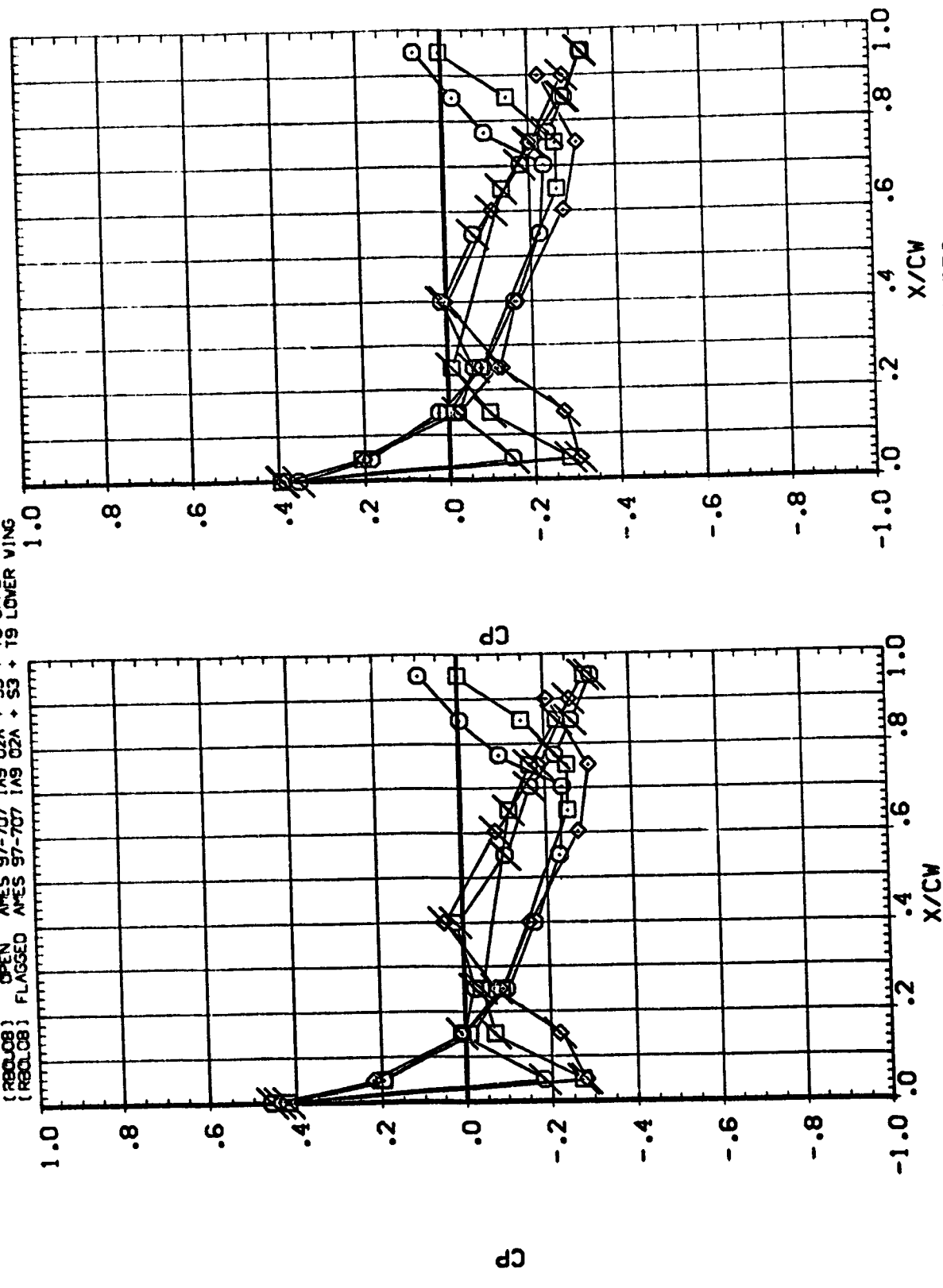
ALPHA	4.000	ORBIT	.500
ROTOR	.000	ELEVON	.000
RUDDER	.000		

SYMBOL

Y/BV	BETAT	MACH
.673	7.050	1.555
.780	9.070	
.887		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(R00LO8)	OPEN	AMES 97-707 1A9 02A + S3 + 19 UPPER WING
(R00LO8)	FLAGGED	AMES 97-707 1A9 02A + S3 + 19 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETRIC VALUES

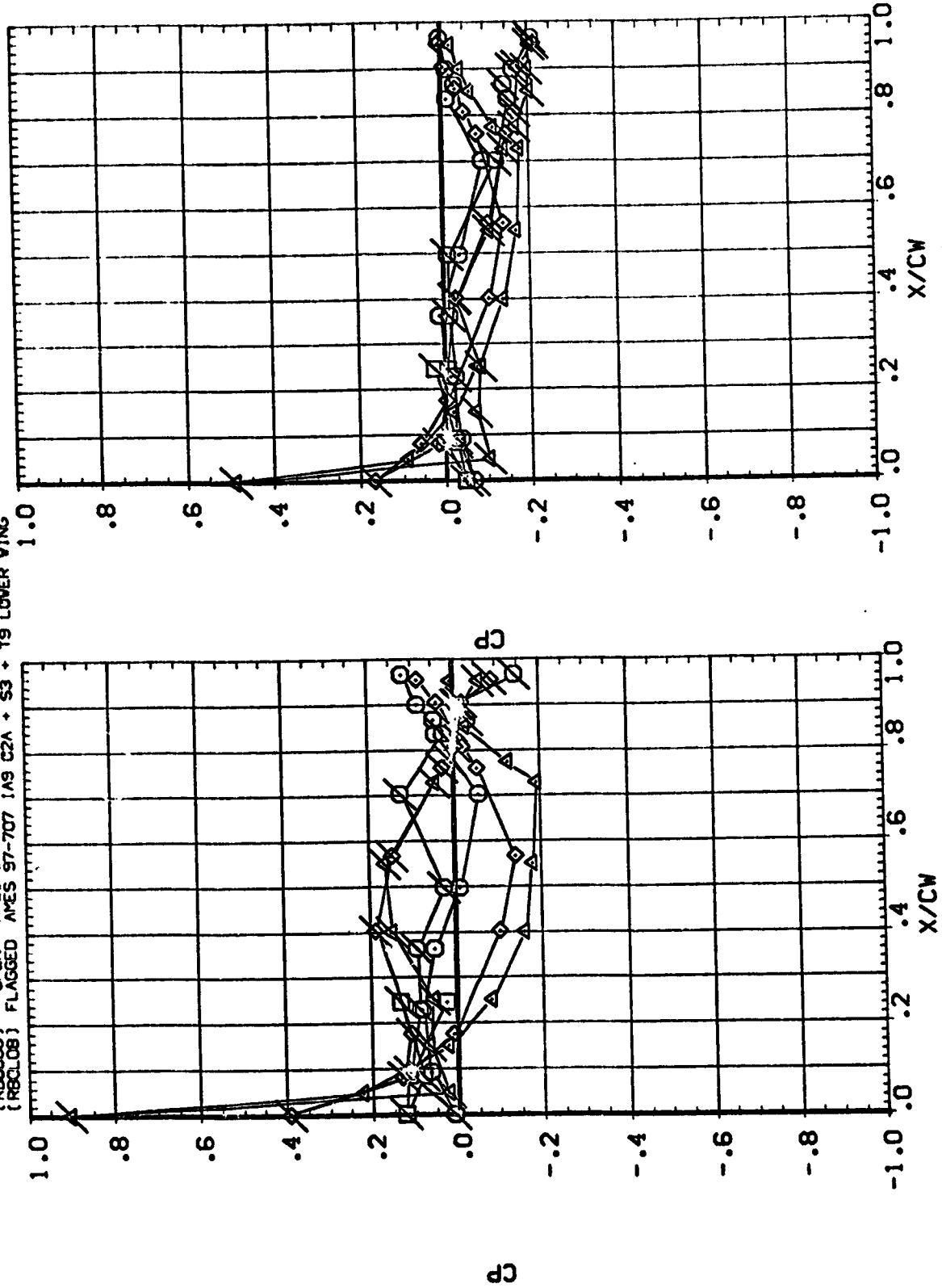
ALPHAT	ORBITC	.500
RCDER	ELEVON	.000
RCDER		

SYMBOL Y/BV BETAT MACH

○	.299	-6.270	2.000
□	.364	3.920	
◇	.427		
△	.534		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RBLJ08)	OPEN	AMES 97-707 IAS C2A + S3 + T9 UPPER WING
(RBLJ08)	FLAGED	AMES 97-707 IAS C2A + S3 + T9 LOWER WING



PARAMETRIC VALUES

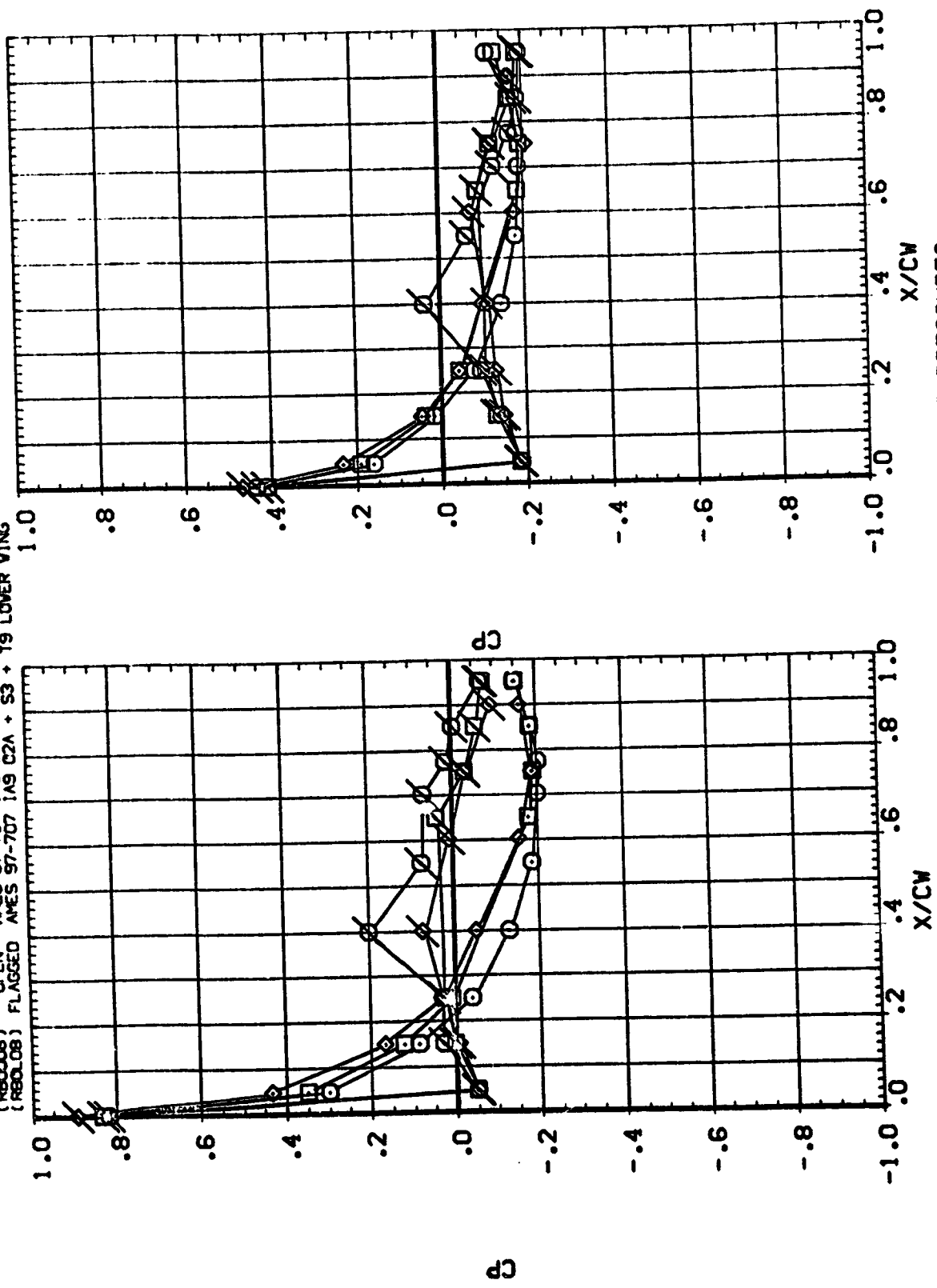
ALPHAT	-4.000	DRBINC	.500
RUDDER	.000	ELEVON	.000
RUFLR	.000		

SYMBOL Y/BV BETAT MACH

◇	.673	-6.270	2.000
□	.780	3.920	
◇	.887		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RBDJ08)	OPEN	AMES 97-707 IAS C2A + S3 + T9 UPPER WING
(RBDJ08)	FLAGGED	AMES 97-707 IAS C2A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETRIC VALUES

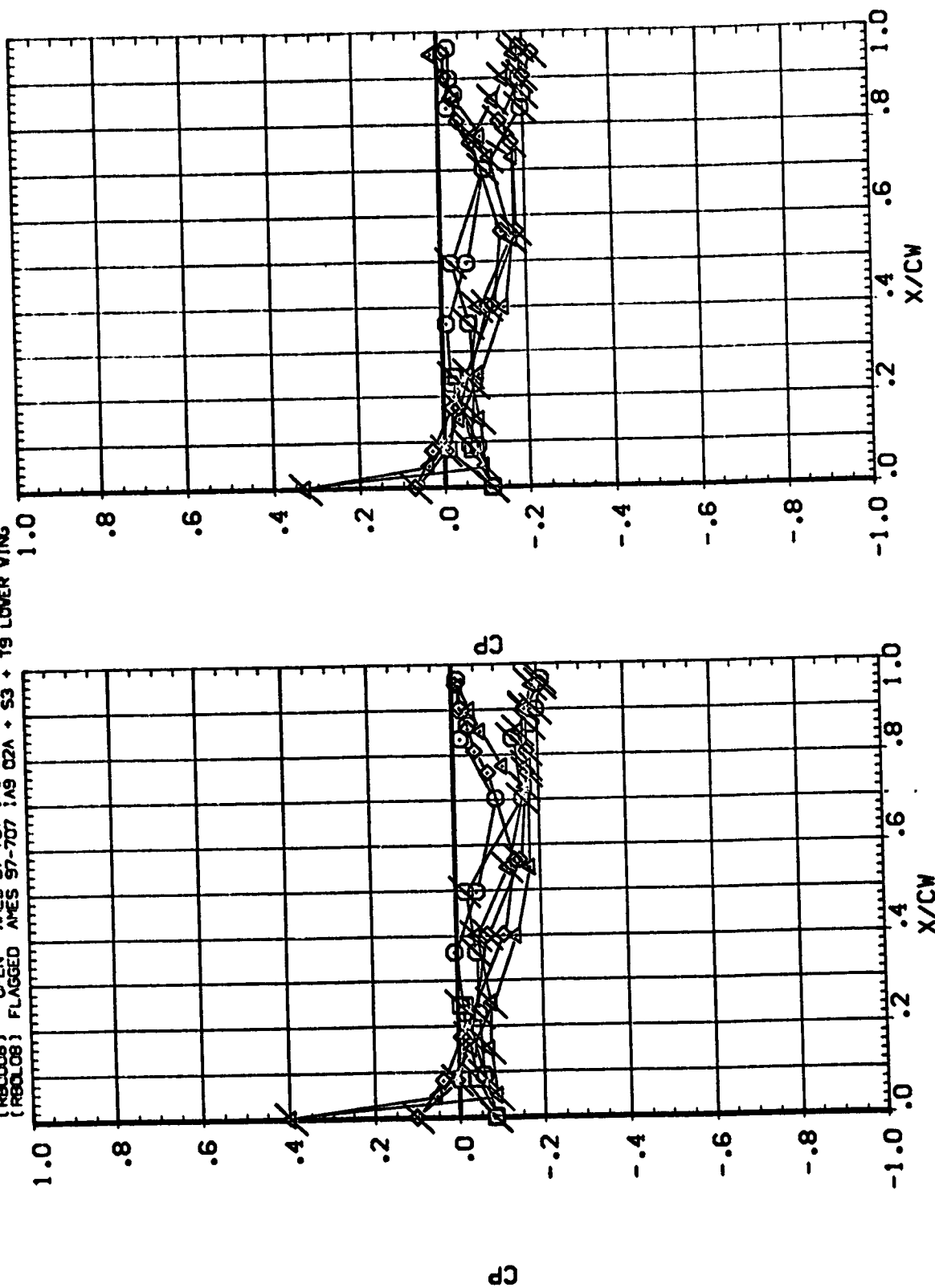
ALPHA	0.500
ORBIT	0.000
RUDDER	0.000
RUFLR	0.000

DATA SET SYMBOL

Y/BV	BETAT	MACH
.299	5.960	2.000
.364	8.010	
.427		
.534		

CONFIGURATION DESCRIPTION

UPPER WING	AVES 97-707 1A9 02A + S3 + 19
LOWER WING	AVES 97-707 1A9 02A + S3 + 19



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETRIC VALUES

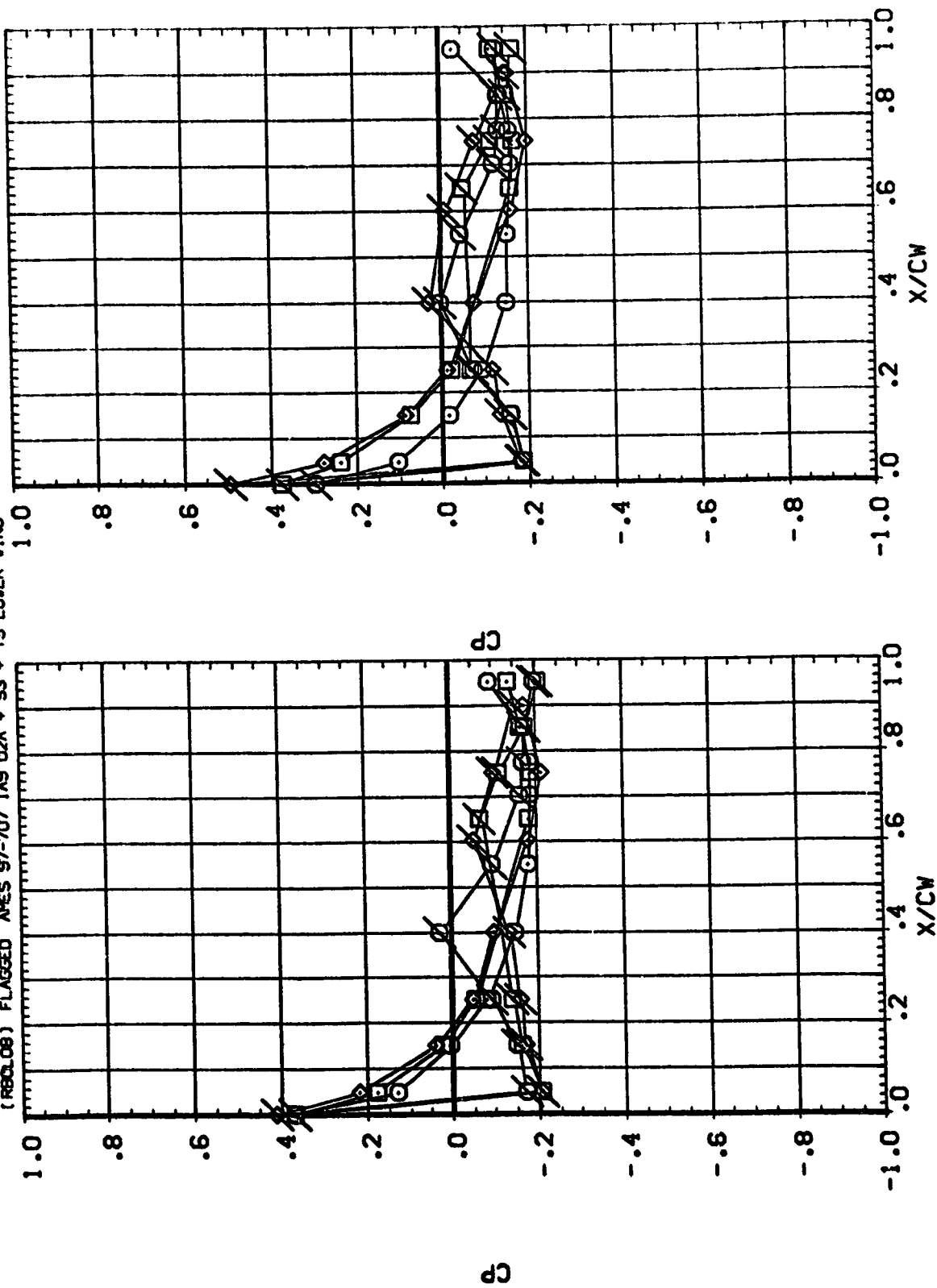
ALPHAT	-4.000	ORBNIC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

SYMBOL Y/BV BETAT MACH

○	.673	5.960	2.000
□	.780	8.010	
◇	.887		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RBDLOB)	OPEN	AMES 97-707 IAS 02A + S3 + TS	UPPER WING
(RBDLOB)	FLAGGED	AMES 97-707 IAS 02A + S3 + TS	LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETRIC VALUES

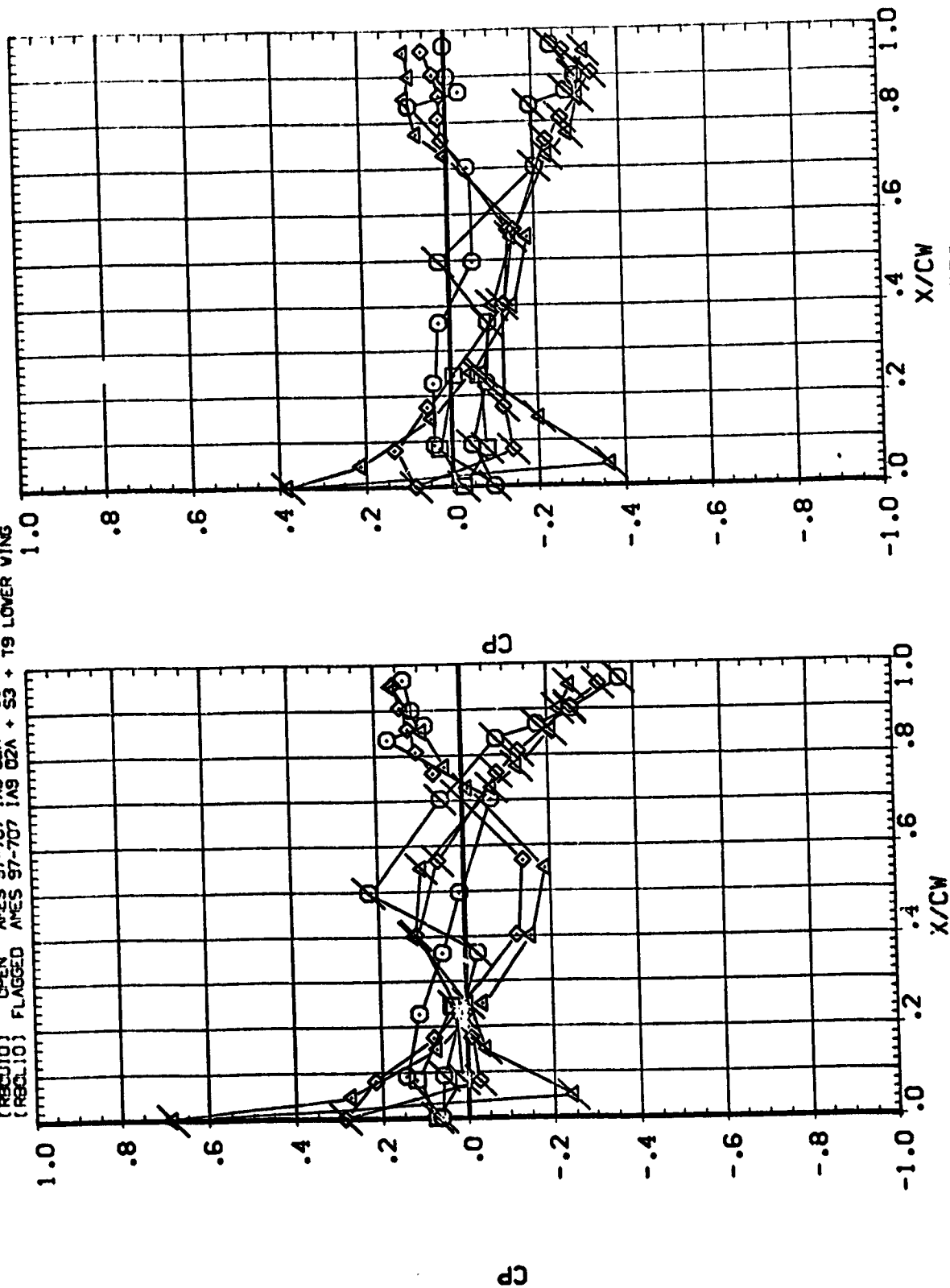
ALPHAT	-8.000	DRBINC	.500
RJDDER	.000	ELEVON	.000
RJDFLR	.000		

SYMBOL Y/BV BETAT MACH

○	.299	-6.210	1.555
□	.364	3.650	
◇	.427		
△	.534		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RECU10)	OPEN	AMES 97-707 1A9 D2A + S3 + T9 UPPER WING
(RECU10)	FLAGGED	AMES 97-707 1A9 D2A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL
 ○ □ ◇

Y/8V .673
 .780
 .867

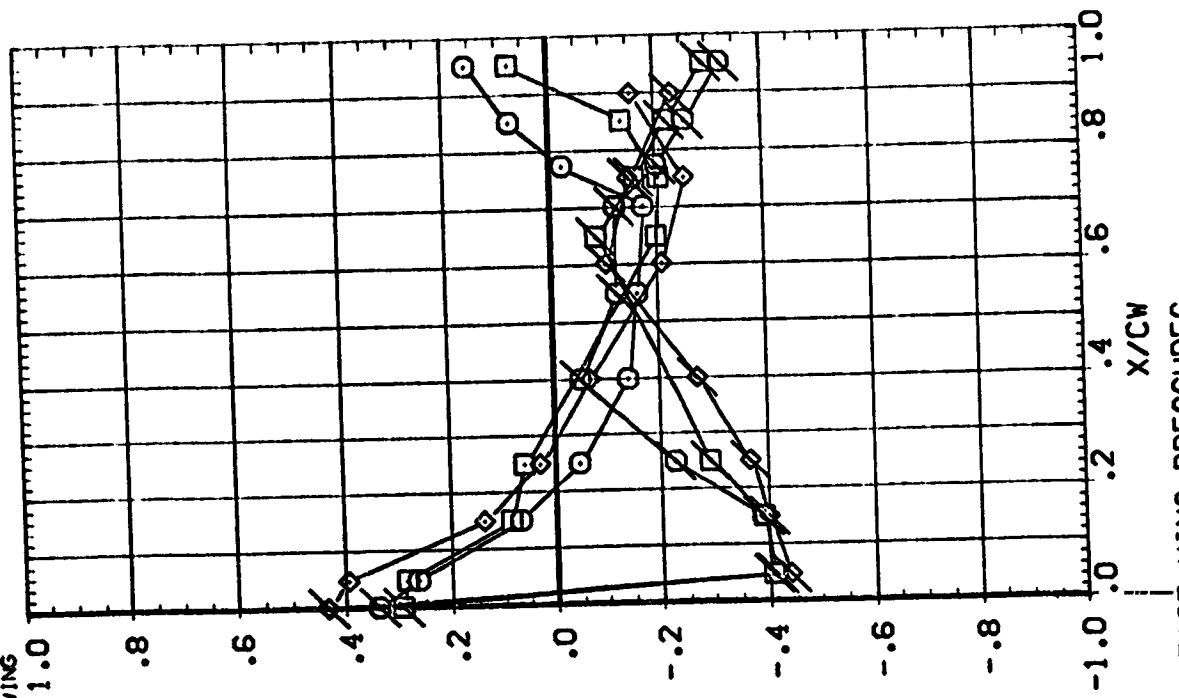
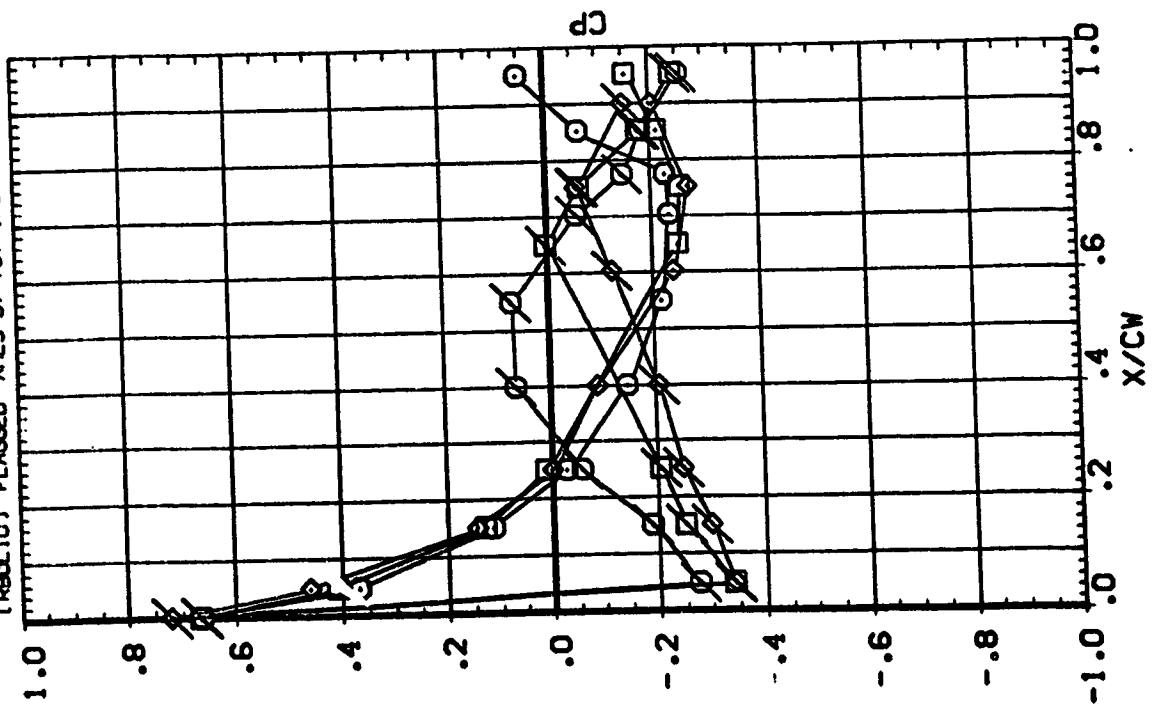
BETAT -6.210
 3.650

MACH 1.555

PARAMETRIC VALUES
 ALPHAT -8.000
 RLODR .000
 RLOFLR .000

ORBINC .500
 ELEVON .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (REQJ10) OPEN AMES 97-707 IAS 02A + S3 + T9 UPPER WING
 (RBL10) FLAGGED AMES 97-707 IAS 02A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

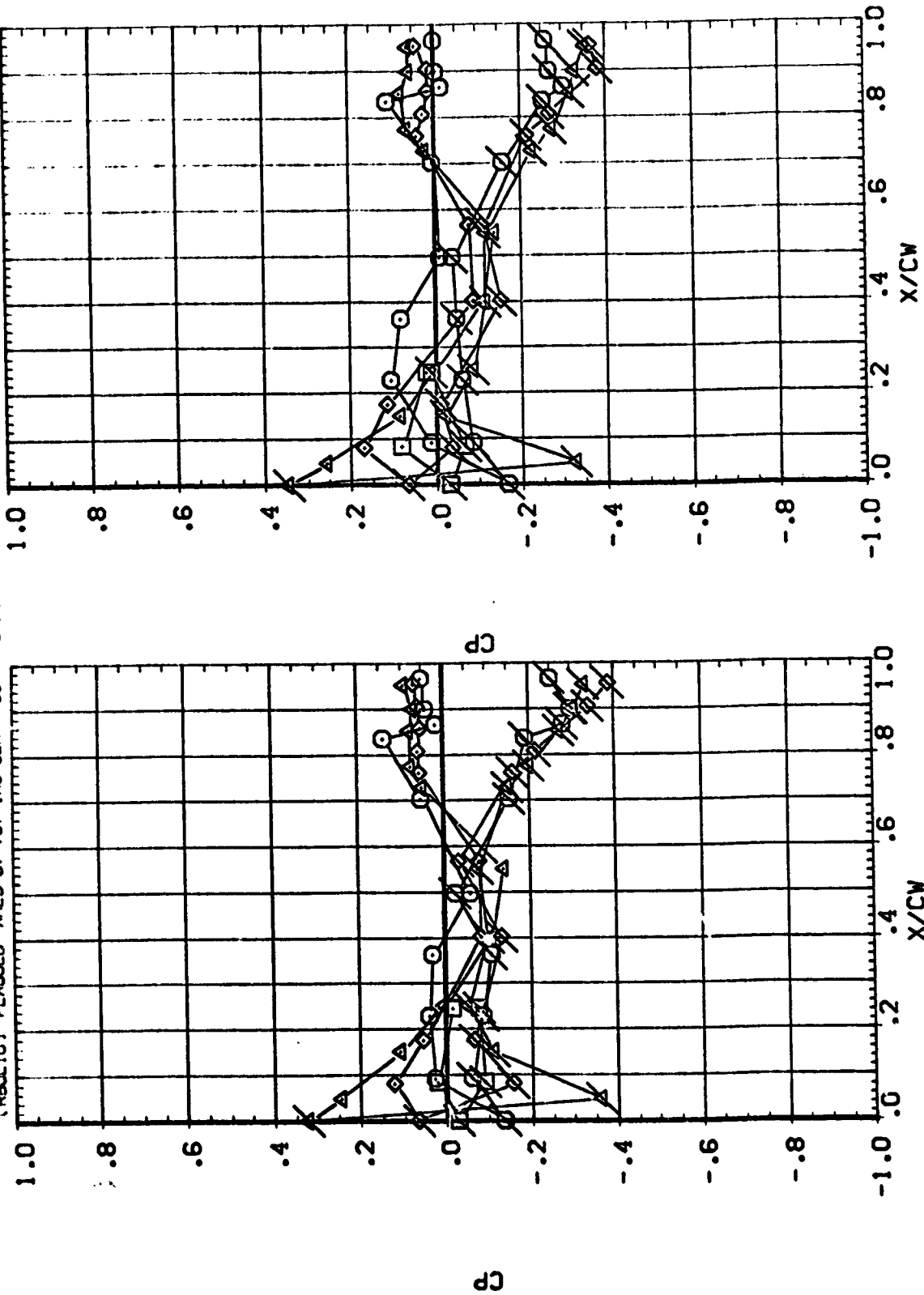
III

SYMBOL Y/BV
 ○ .299
 □ .364
 ◇ .427
 △ .534

BETAT MACH
 5.710 1.555
 7.770

PARAMETRIC VALUES
 ALPHAT -8.000
 RUDDER .000
 RUOFLR .000
 ELEVON .500
 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (R8Q10) OPEN AMES 97-707 IAS 02A + S3 + T9 UPPER WING
 (R8Q10) FLAGGED AMES 97-707 IAS 02A + S3 + T9 LOWER WING



CHARACTERIZATION OF LIFTED AND LOADED GUIDANCE WING PROFILES

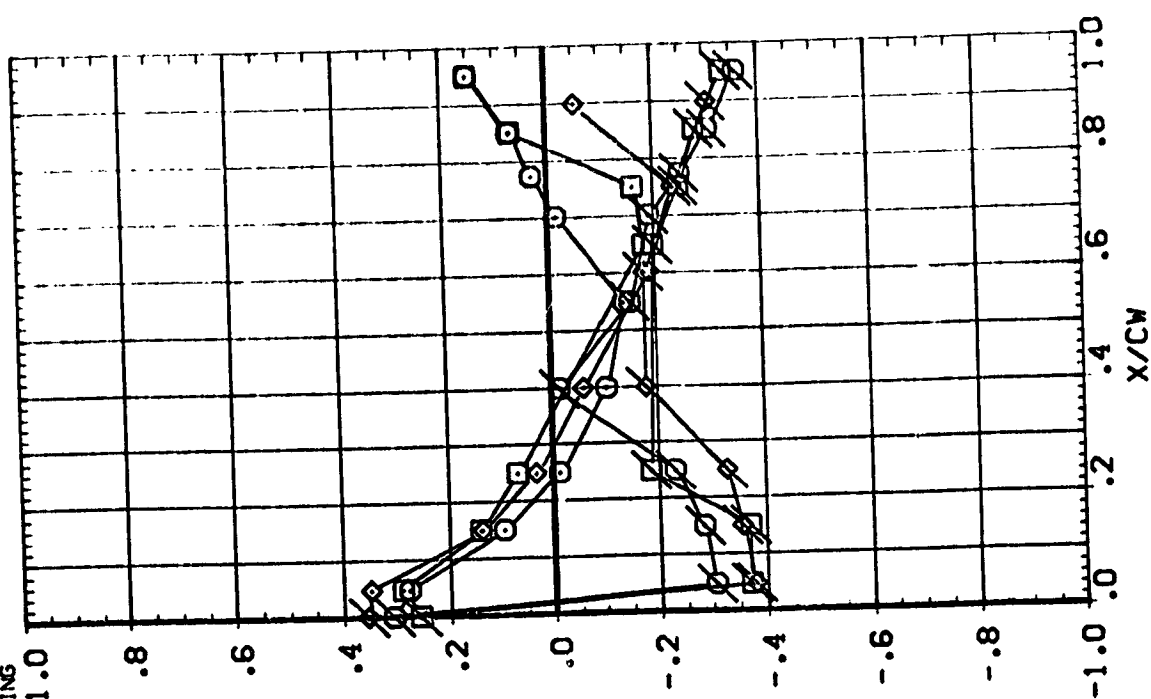
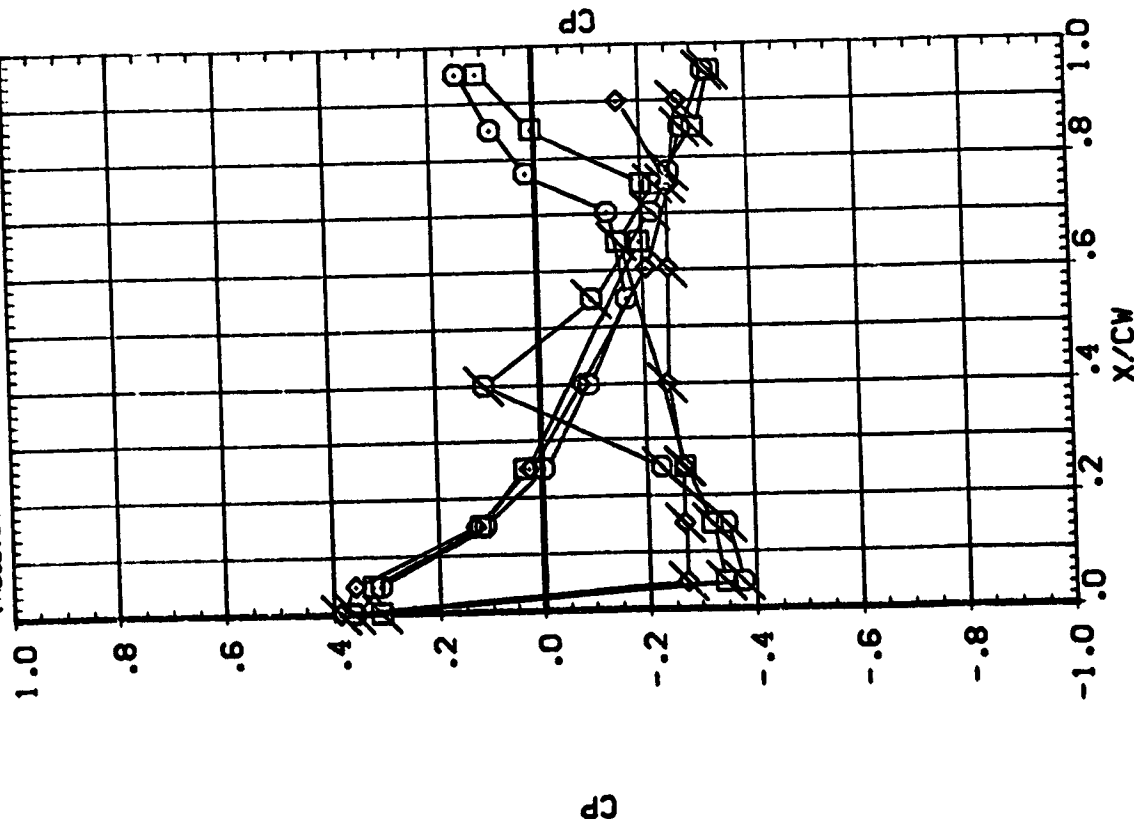
SYMBOL Y/BV .673
 .780
 .887

BETAT 5.710
 7.770

MACH 1.555

PARAMETRIC VALUES
 ALPHAT -8.000
 RUDDER .000
 RUOFLR .000
 OROINC .500
 ELEVEN .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (REQULIO) OPEN AMES 97-707 1A9 02A + S3 + T9 UPPER WING
 (REQULIO) FLAGGED AMES 97-707 1A9 02A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETRIC VALUES

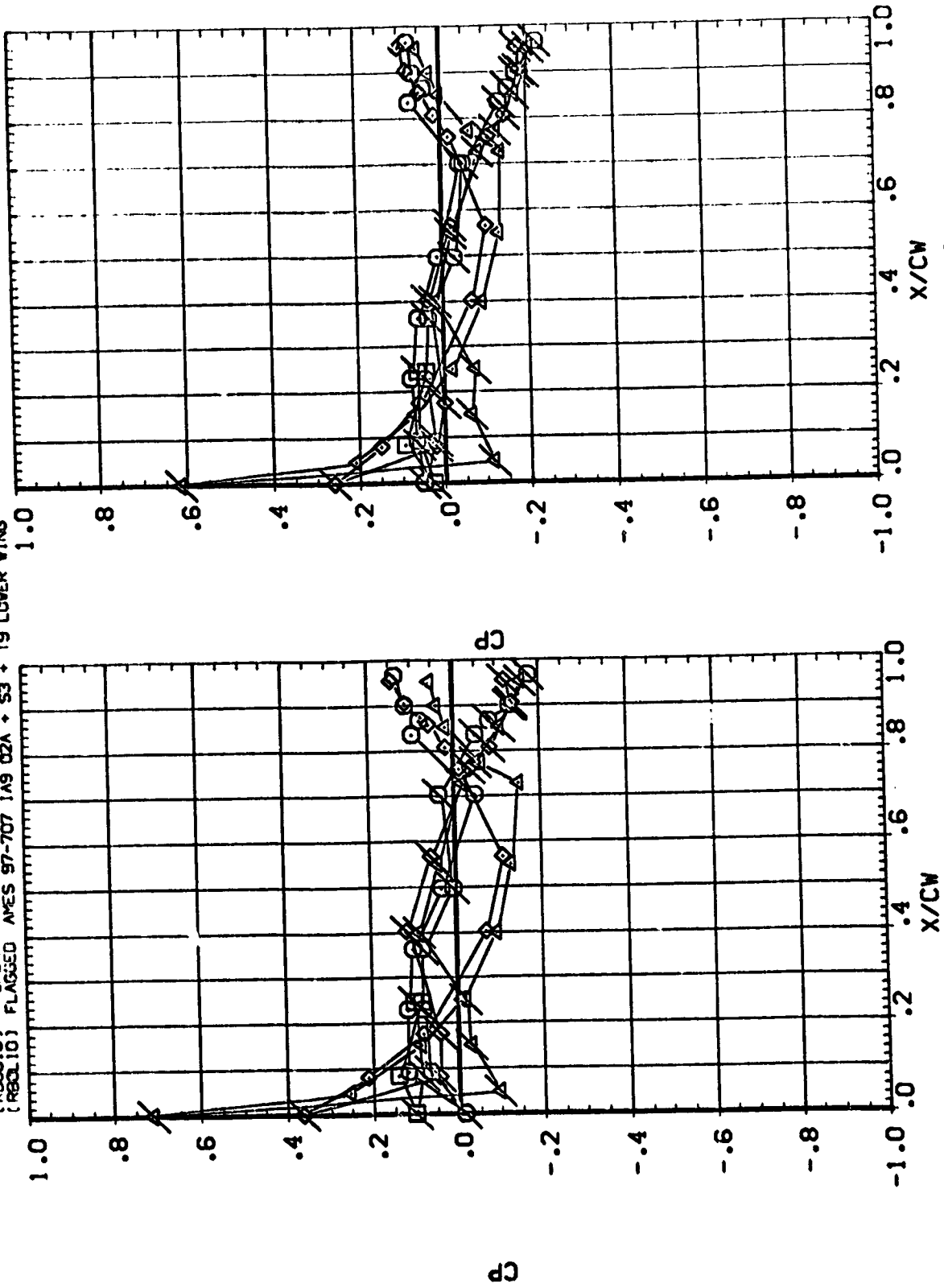
ALPHAT	-8.000	ORGINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

Y/BV

.299	BETAT	MACH
.364	-4.280	2.000
.427	-.170	
.534		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(REQJ10)	OPEN	AMES 97-707 1A9 02A + S3 + T9 UPPER WING
(REQJ10)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL
 ○ □ ◇

Y/BN
 .573
 .780
 .887

BETAT
 -4.280
 -.170

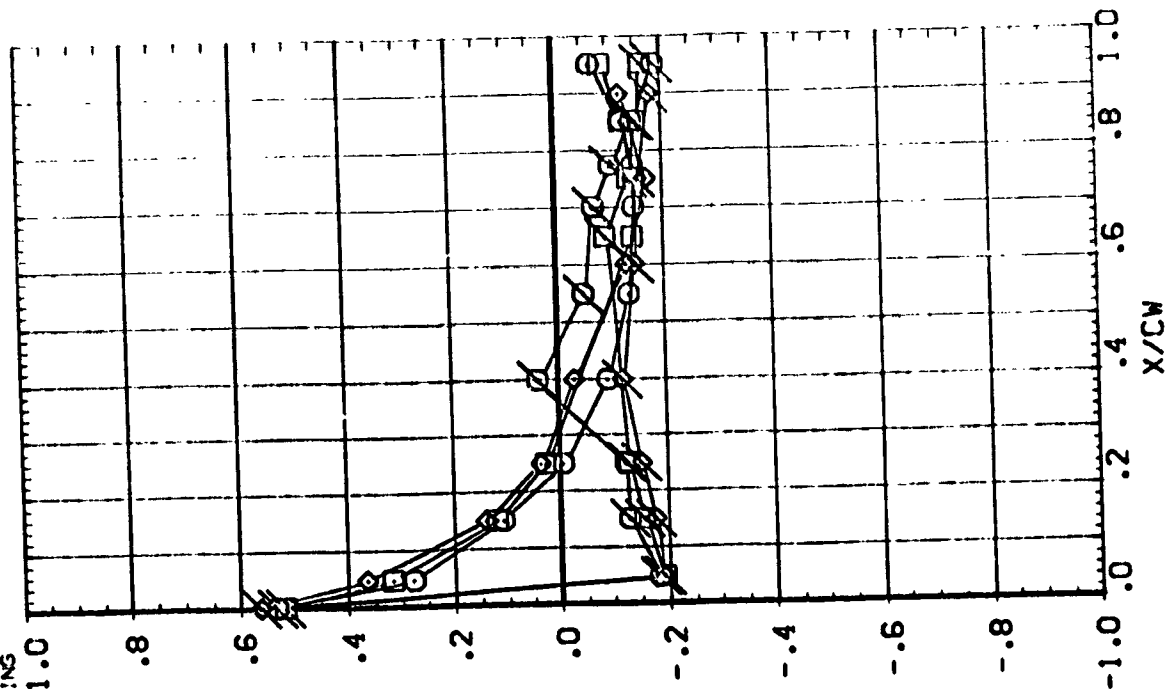
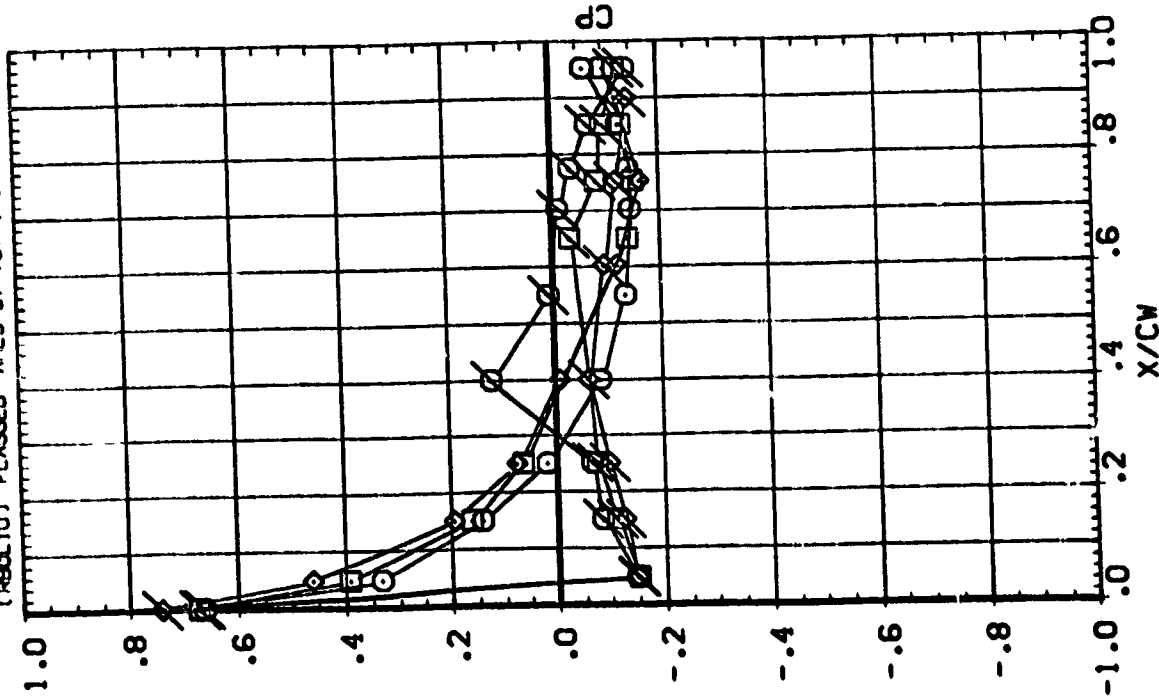
MACH
 2.000

ALPHAT
 RUDER
 RUDFLR

PARAMETRIC VALUES
 -8.000
 .000
 .000

500
 1000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBL10) OPEN AMES 97-707 1A9 02A + S3 + T9 UPPER WING
 (RBL10) FLAGGED AMES 97-707 1A9 02A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

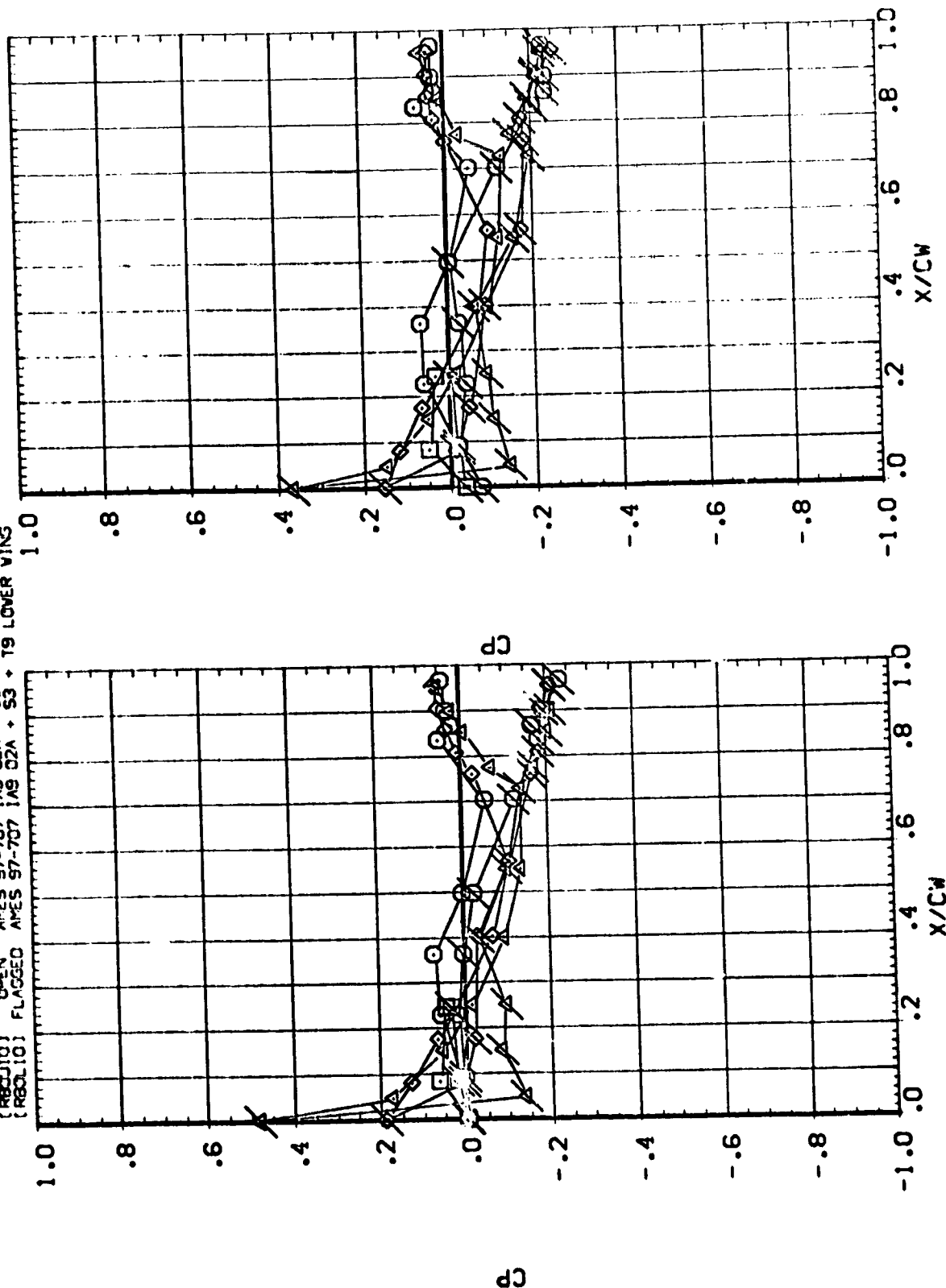


SYMBOL V/BV
 .299
 .364
 .427
 .534

BETAT MACH
 3.940 2.000
 8.050

PARAMETRIC VALUES
 ALPHA: .500
 CRBING .000
 RUDDER .000
 RUFLR .000
 ELEVON .000

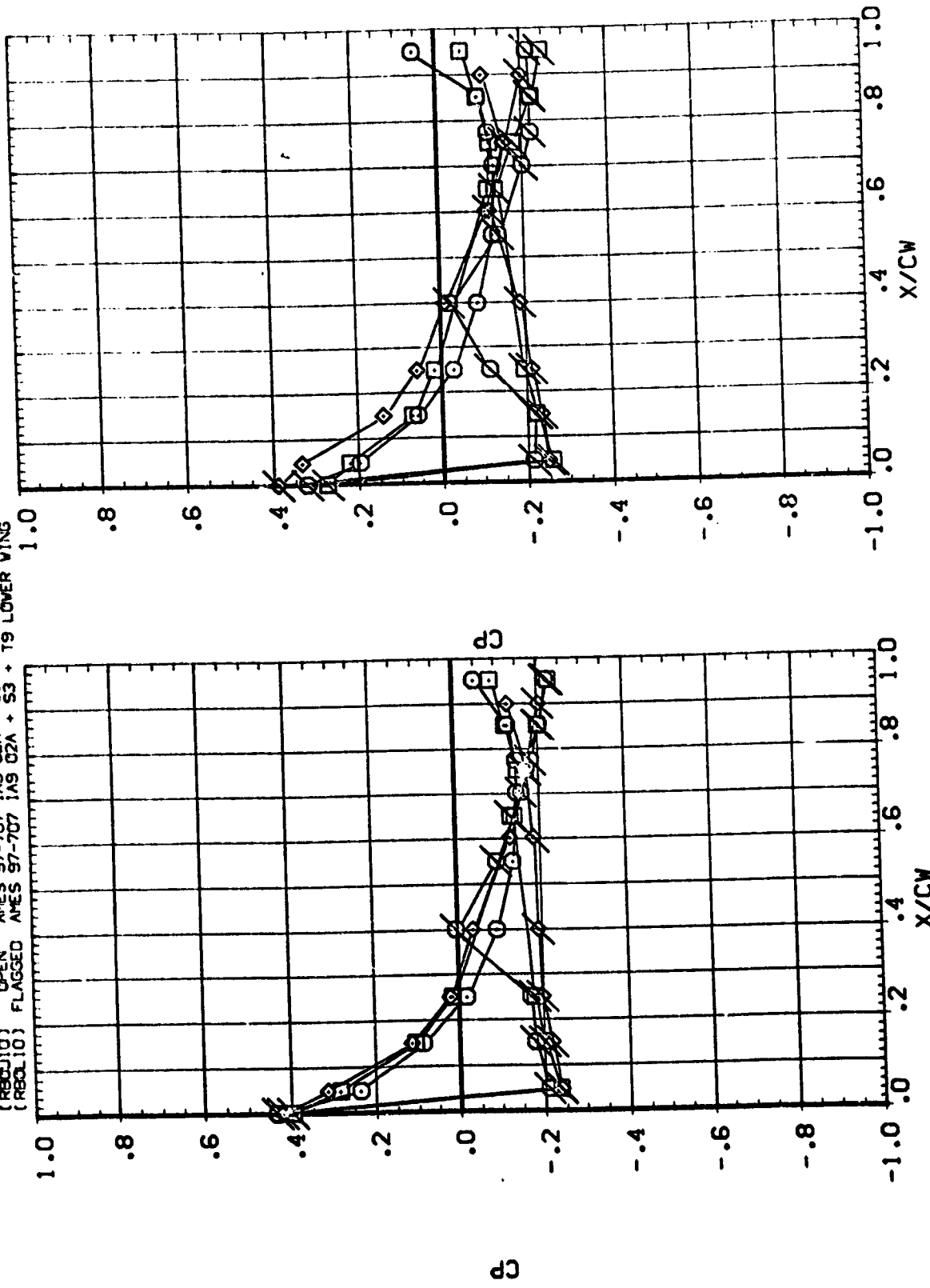
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 [RBLQ10] OPEN AMES 97-707 1A9 02A + S3 + 19 UPPER WING
 [RBLQ10] FLAGGED AMES 97-707 1A9 02A + S3 + 19 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/BV	BETAT	MACH	PARAMETRIC VALUES		
				ALPHA	ORBIT	.500
				RJCEER	.000	.000
				RJDFLR	.000	.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RBOJ10)	OPEN	AMES 97-707 IAS 02A + S3 + T9 UPPER WING
(RBOJ10)	FLAGGED	AMES 97-707 IAS 02A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

ALPHAT	MACH
-4.250	1.555
-.120	

ALPHAT
-4.250
-.120

MACH 1.555

AB
.158
.316
.600

SYMBOL

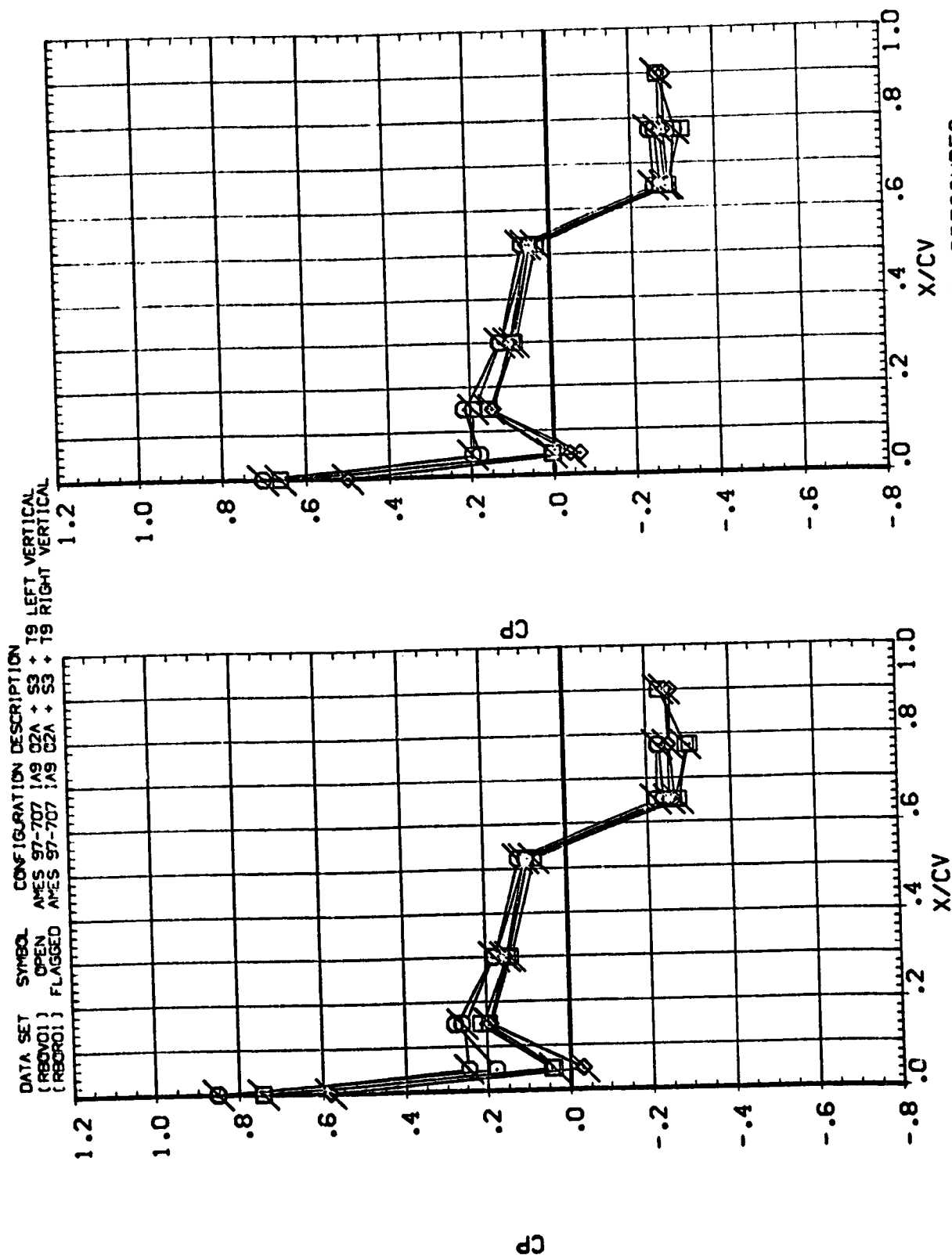
PARAMETRIC VALUES

BETAT
RUDDER
RUDCLR

000.000

CRB INC
ELEVEN

888



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

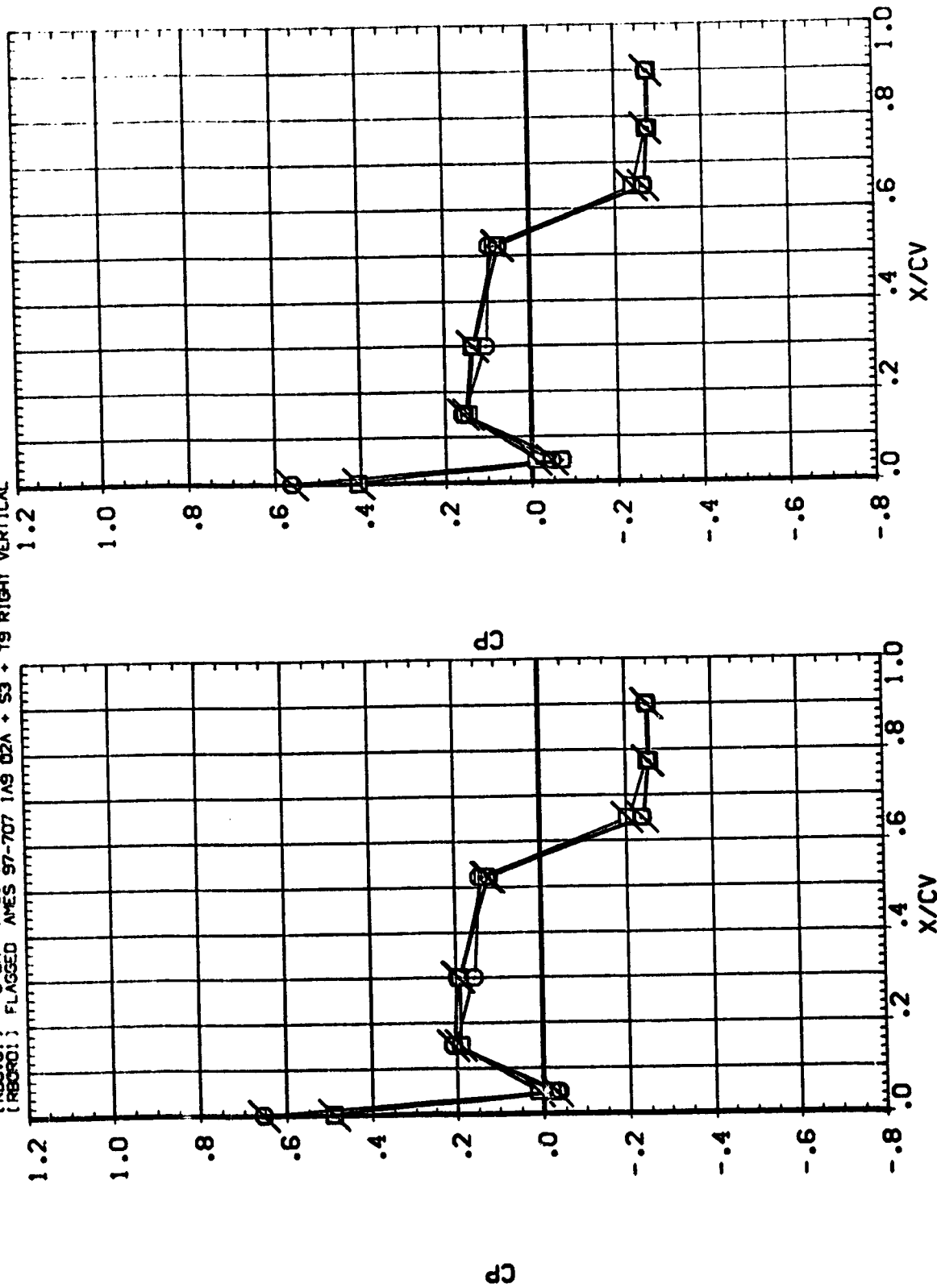
PARAMETRIC VALUES

BETAT	.000	ORBN	.500
RUDDER	.000	ELEVON	.000
RUOFLR	.000		

SYMBOL

Z/8V	ALPHAT	MACH
.840	-4.250	1.555
.925	-.120	

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (REDOV1) OPEN AHES 97-707 1A9 02A + S3 + 19 LEFT VERTICAL
 (REDOV1) FLAGGED AHES 97-707 1A9 02A + S3 + 19 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

BETAT
RUDDER
RUDFLR

.500
.000

ORBITC
ELEVON

.000
.000

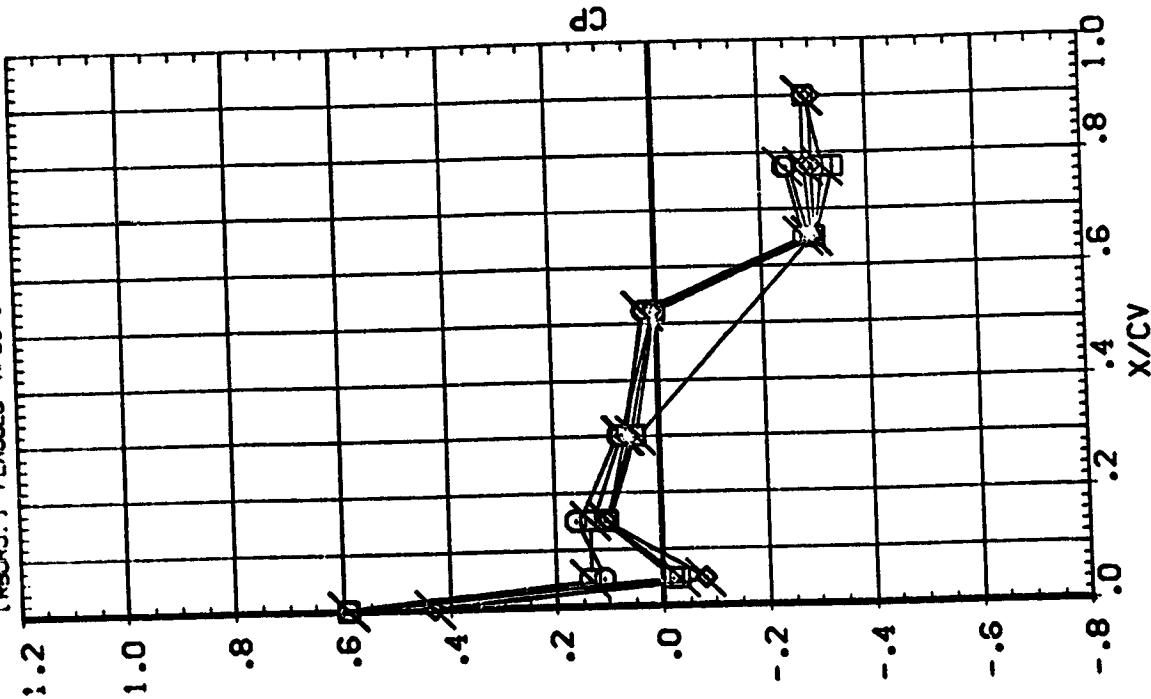
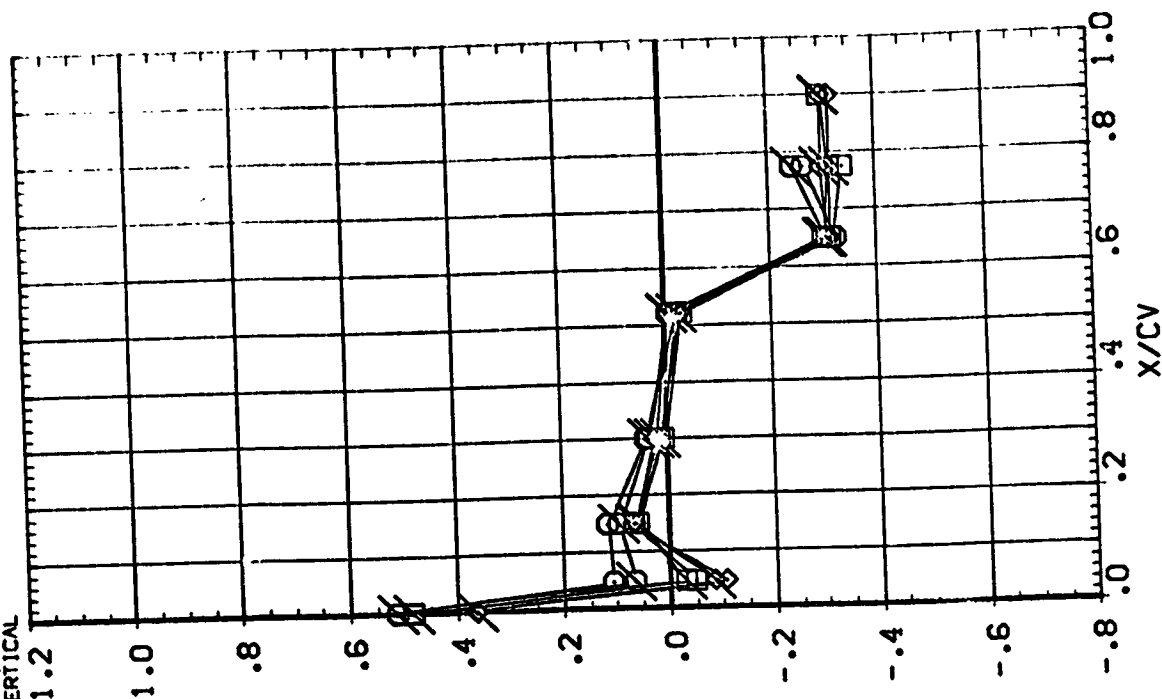
ALPHAT MACH

4.010 1.555
8.130

Z/BV
.158
.316
.600

SYMBOL
□
◇

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(RBDVCI) OPEN AMES 97-707 IAS 02A + S3 + T9 LEFT VERTICAL
(RBDVCI) FLAGGED AMES 97-707 IAS 02A + S3 + T9 RIGHT VERTICAL



PARAMETRIC VALUES

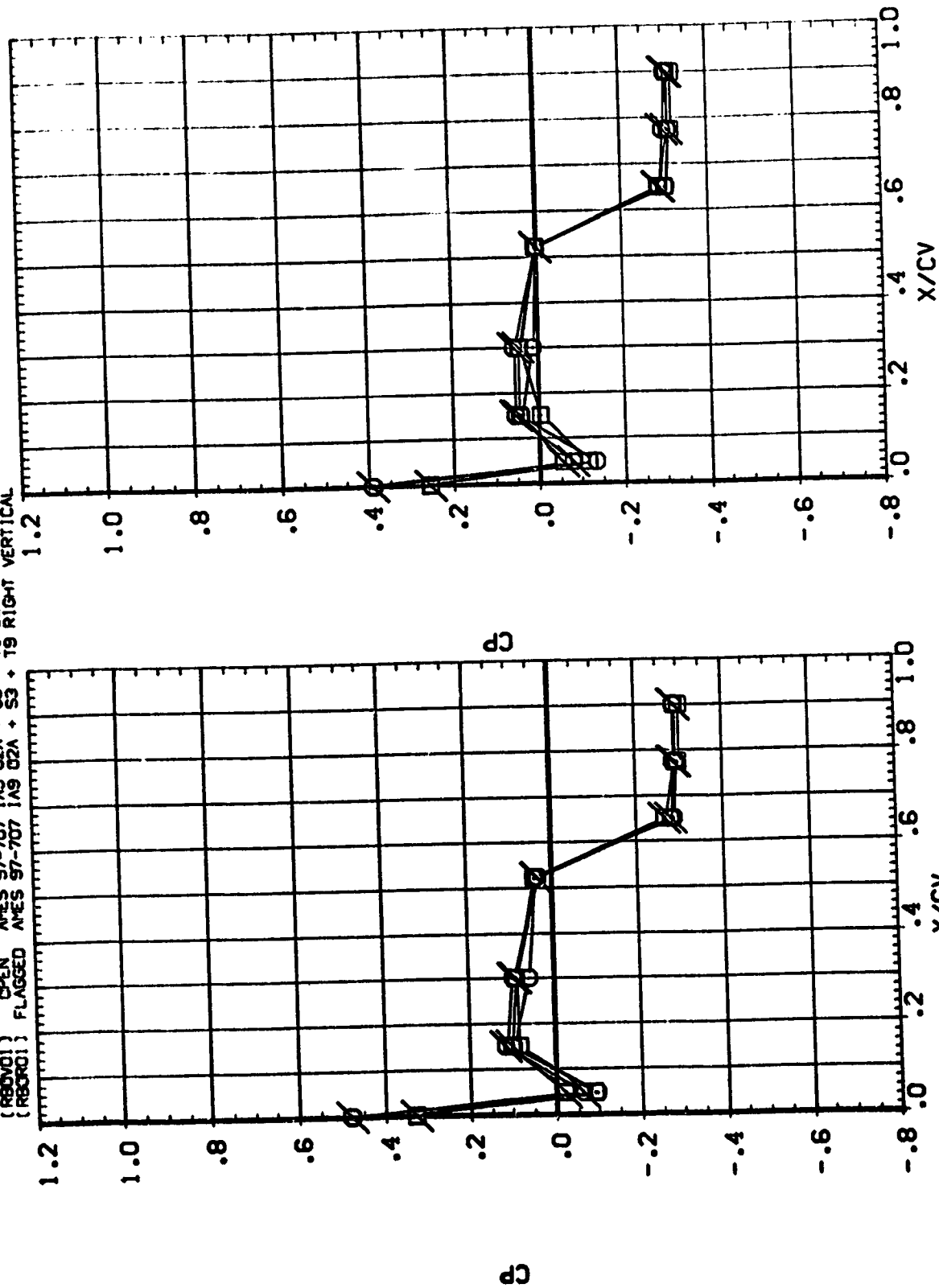
BETAT	.000	CSB:VC	.500
RUDDER	.000	ELEV:VN	.000
RUDFLR	.000		

SYMBOL Z/BV ALPHAAT MACH

○	.940	4.010	1.555
□	.925	8.130	

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RECORD1)	OPEN	AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RECORD1)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

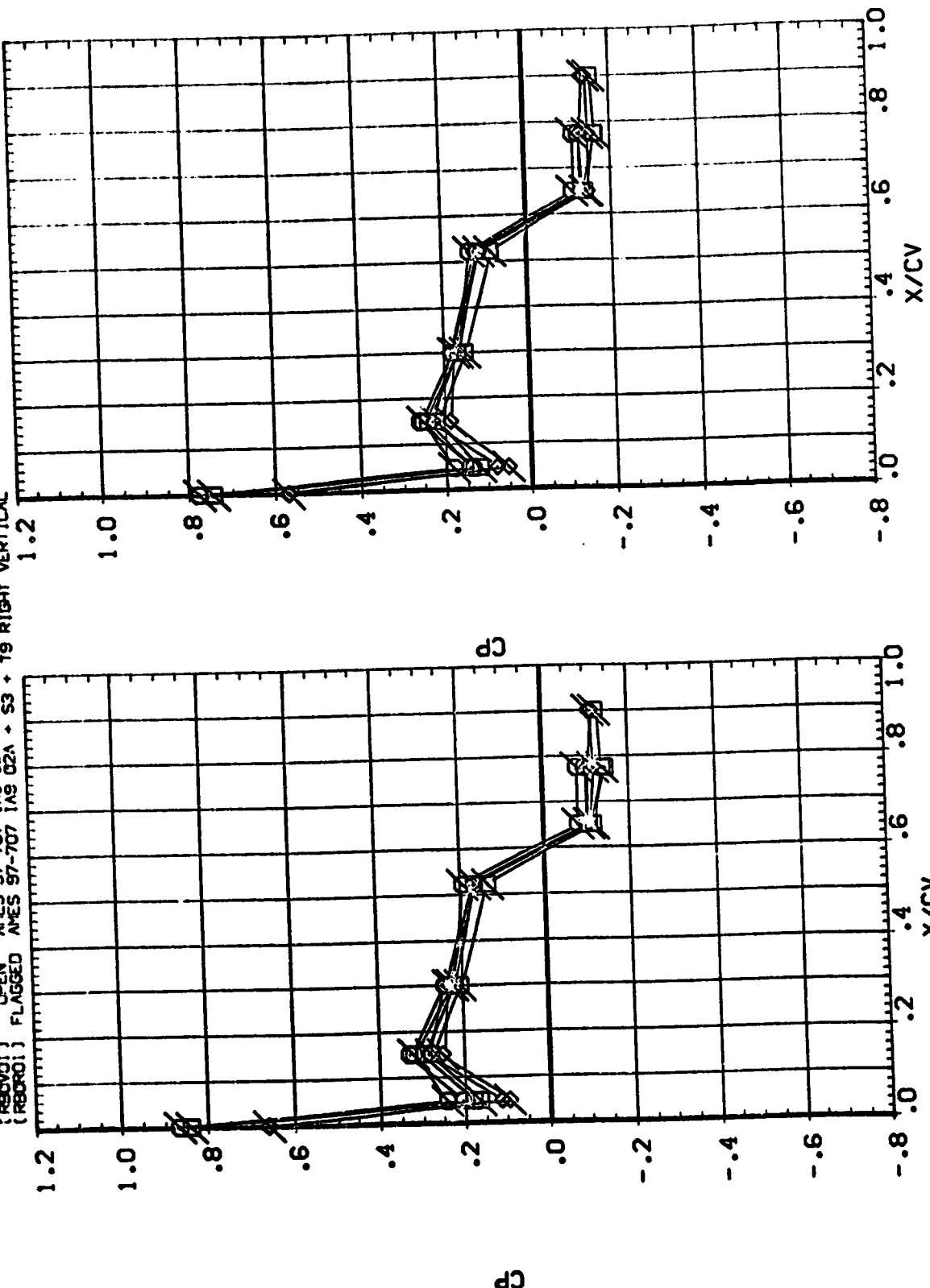
BETAT	.000	CRSINC	.500
RJDDER	.000	ELEVCH	.000
RJDFLR	.000		

SYMBOL Z/BV ALPHAT MACH

○	.158	-4.250	2.000
□	.316	-.160	
◇	.600		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RBDV01)	OPEN	AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RBDV01)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



PARAMETRIC VALUES

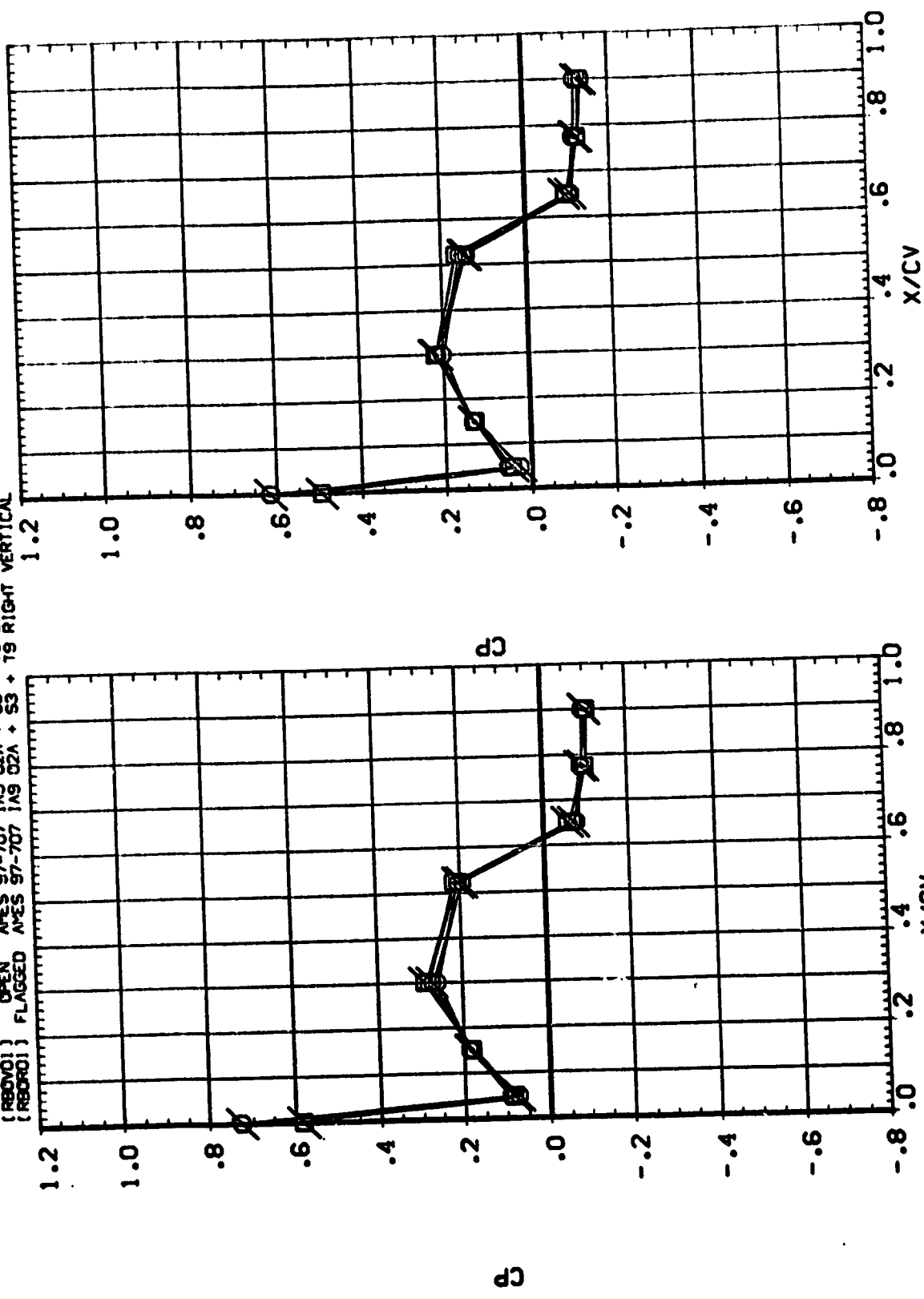
BETAT	.000	ORBNIC	.500
RJOSER	.000	ELEVON	.000
RJOFER	.000		

SYMBOL Z/BV ALPHAT MACH

□	.940	-4.250	2.000
□	.925	-.160	

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(REDOV1)	OPEN	AVES 97-707	IAS 02A + S3 + T9 LEFT VERTICAL
(REDOV1)	FLAGGED	AVES 97-707	IAS 02A + S3 + T9 RIGHT VERTICAL



PARAMETRIC VALUES

BETAT	.000	ORBNIC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

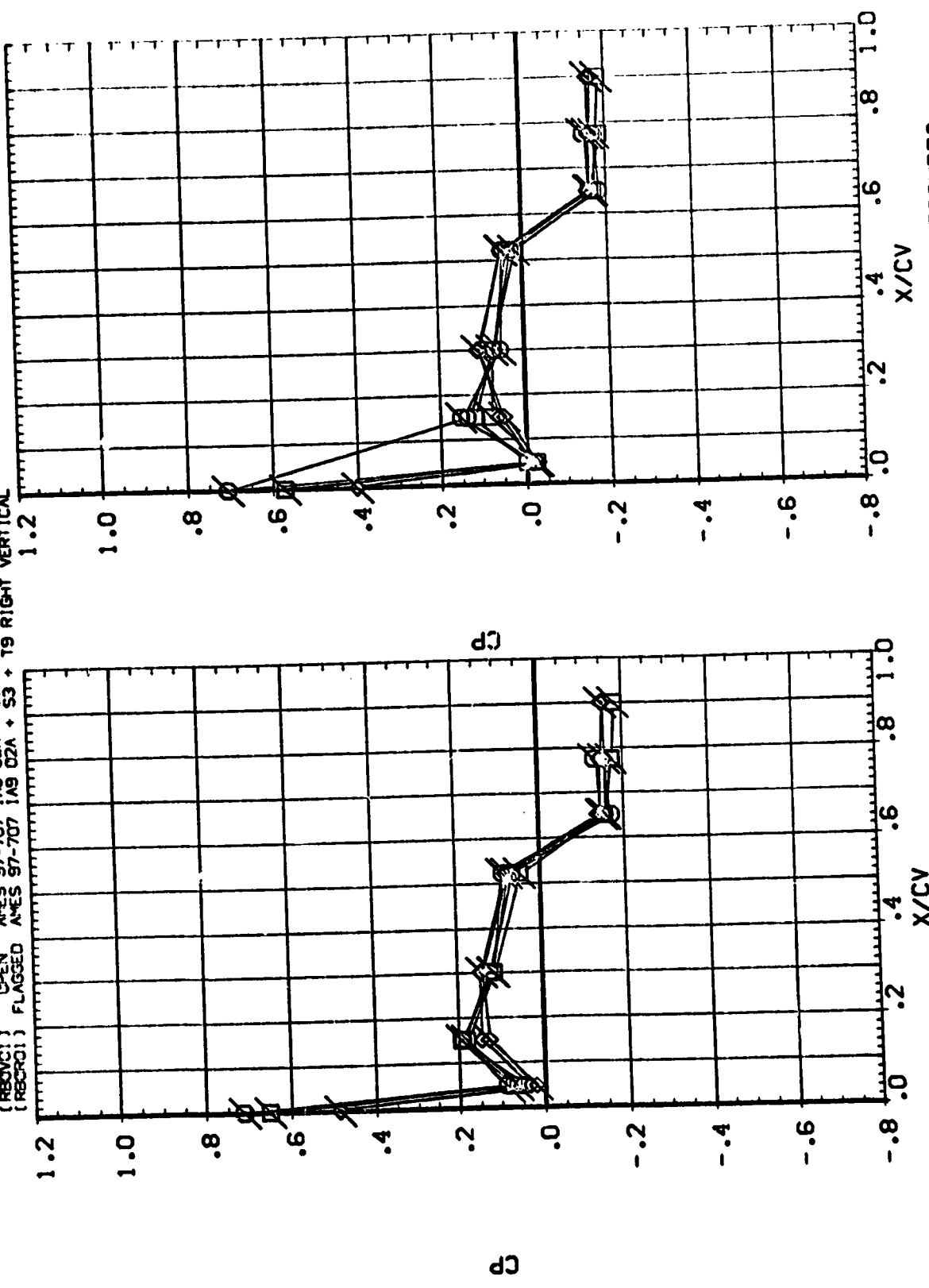
SYMBOL

Z/BV	ALPHAT	MACH
.158	3.930	2.000
.316	8.020	
.600		

□
 ○
 ◇

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(REBOVC1)	OPEN	ANES 97-707 1A9 02A + S3 + 19 LEFT VERTICAL
(REBOVC1)	FLAGGED	ANES 97-707 1A9 02A + S3 + 19 RIGHT VERTICAL



PARAMETRIC VALUES

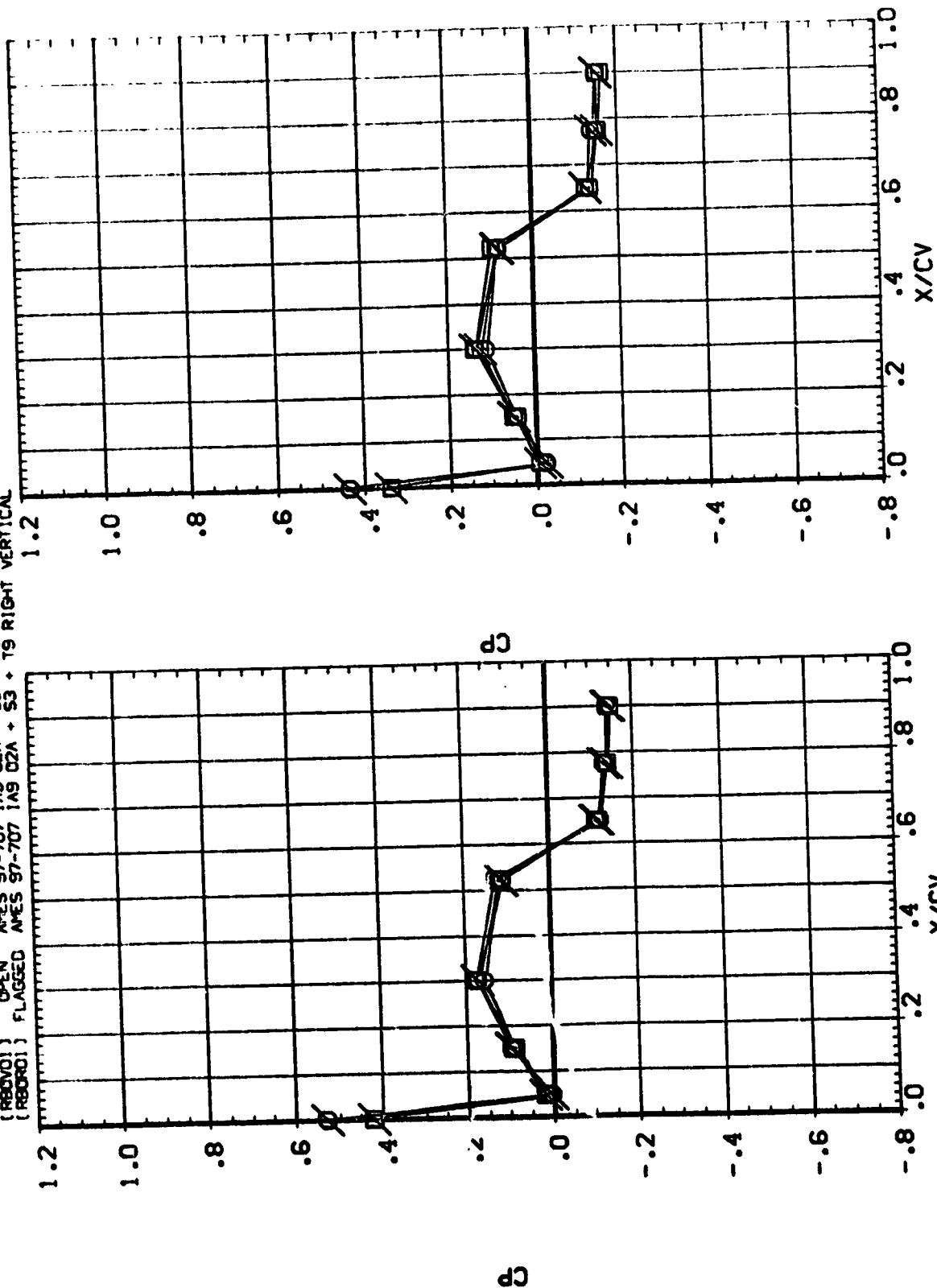
BETAT	.000	CRBINC	.500
RUDER	.000	ELEVEN	.000
RUDFLR	.000		

SYMBOL Z/BV ALPHAT MACH

□	.840	3.930	2.000
□	.925	9.020	

DATA SET SYMBOL CONFIGURATION DESCRIPTION

{ RBOVOI }	OPEN	AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
{ RBOROI }	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



PARAMETRIC VALUES

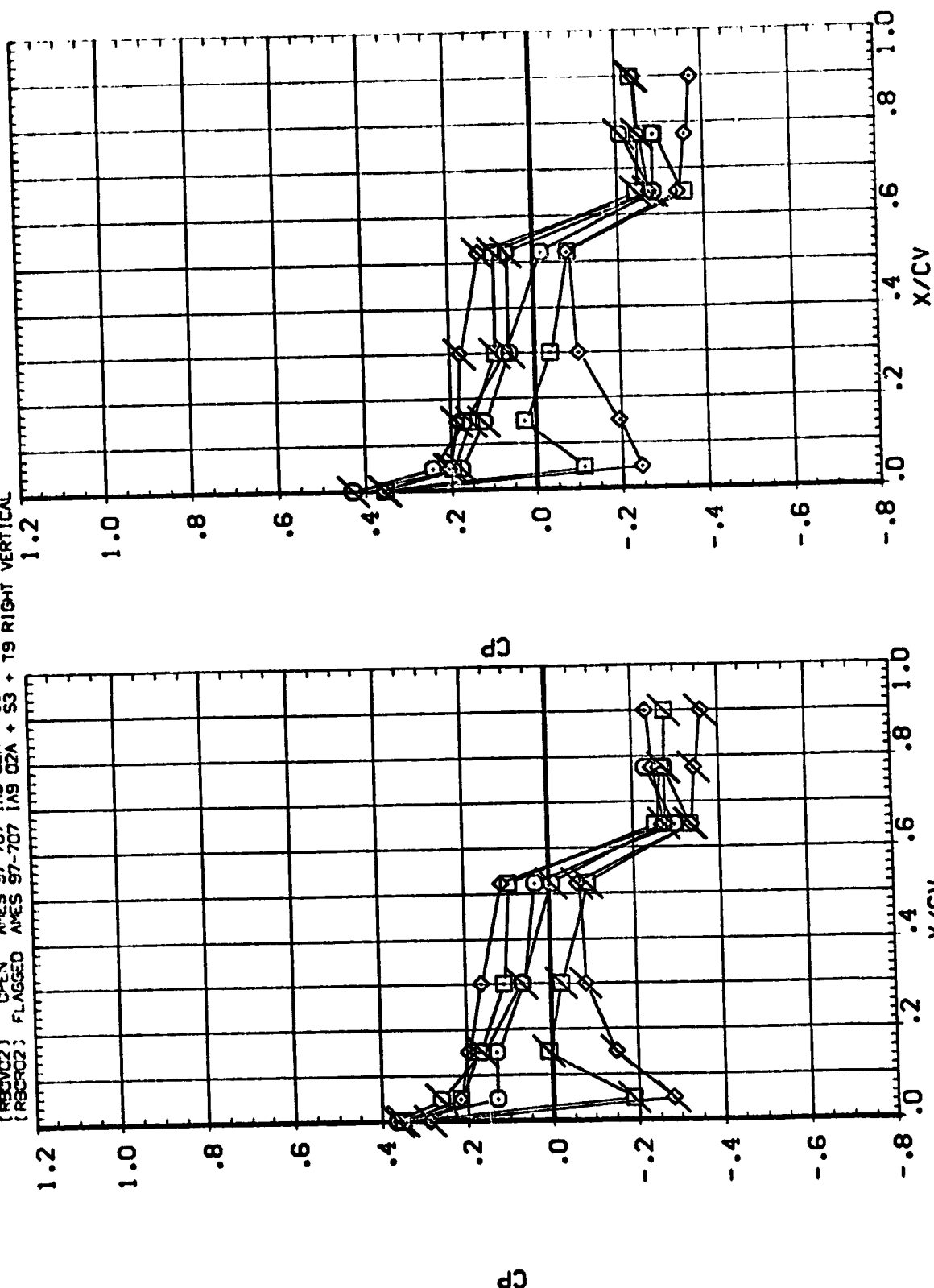
ALPHA	8.000	CRB:NC	.500
RUDDER	.000	ELEV	.000
RUDELR	.000		

SYMBOL Z/BV BETAT MACH

○	.158	-5.100	1.555
□	.316	5.110	
◇	.600		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RBOVC2)	OPEN	AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RBOVC2)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



PARAMETRIC VALUES

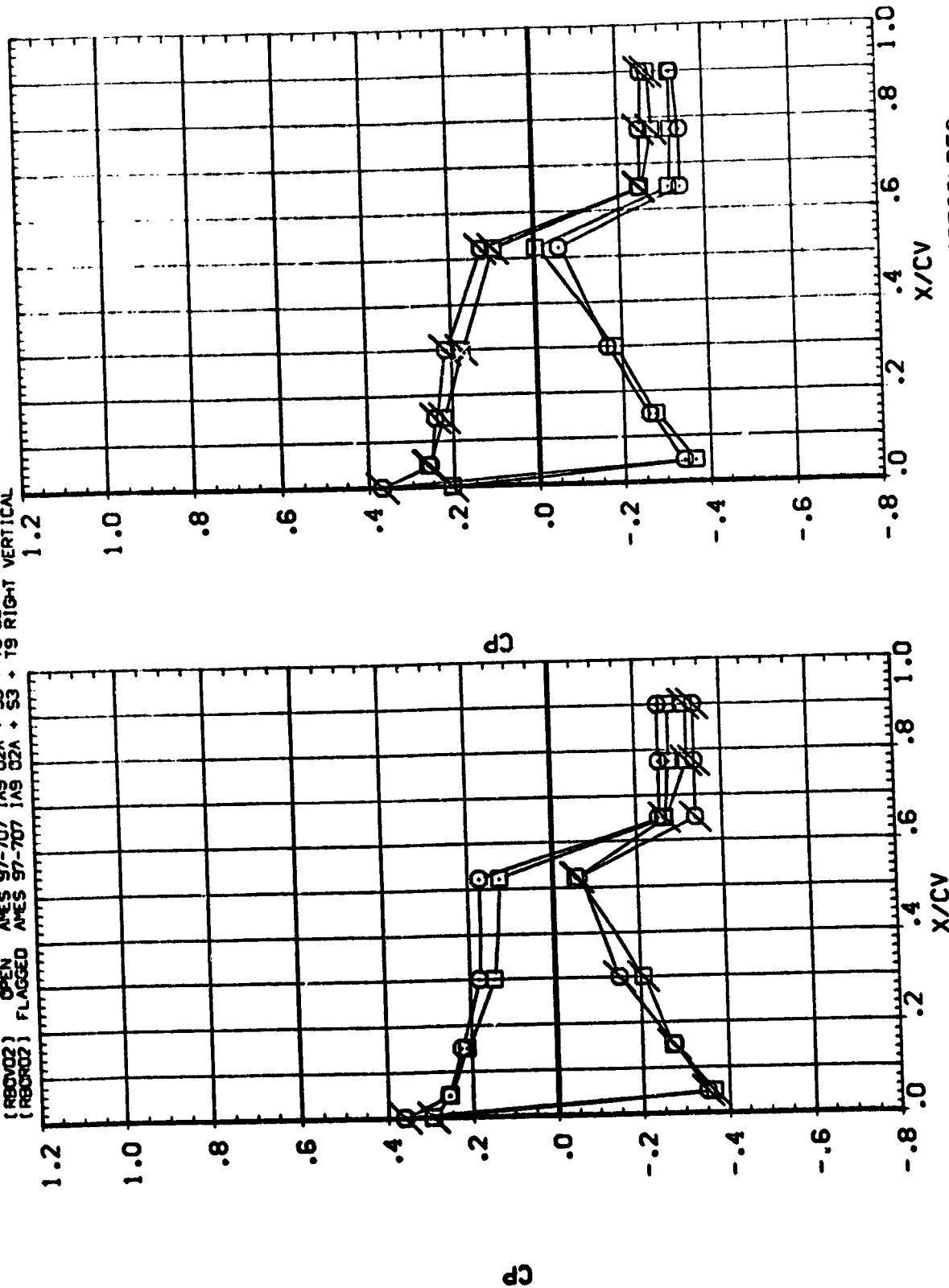
ALPHAT	8.000	SRBINC	.500
RUEFLR	.000	ELEVON	.000
RUEFLR	.000		

SYMBOL Z/BV BETAT MACH

□	.840	-5.100	1.555
□	.925	5.110	

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RBOV02)	OPEN	AWES 97-707 IAS 02A + S3 + T9 LEFT VERTICAL
(RBOV02)	FLAGGED	AWES 97-707 IAS 02A + S3 + T9 RIGHT VERTICAL



PARAMETRIC VALUES

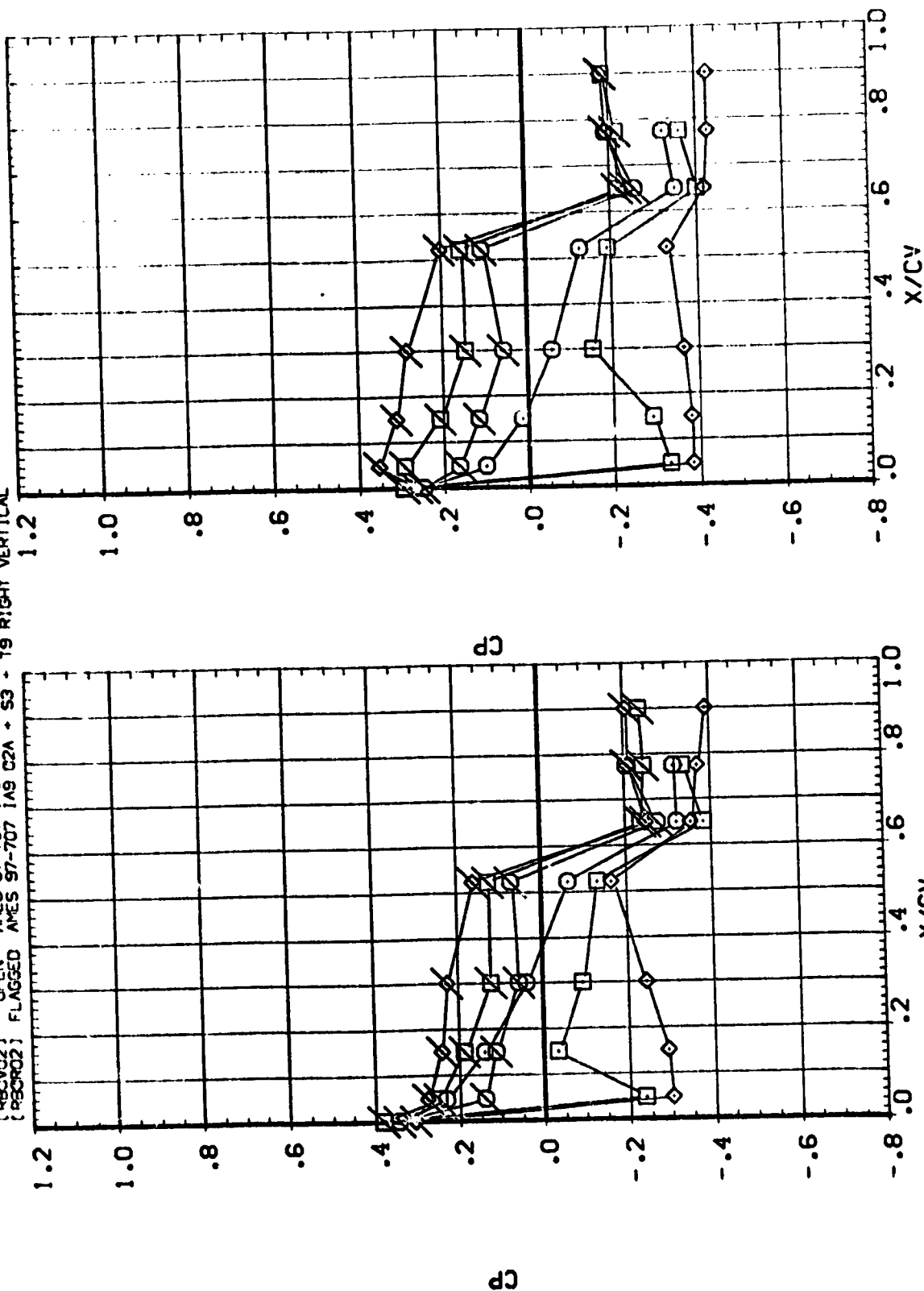
ALPHAT	8.000	09810	.500
RUDDER	.000	ELEVON	.000
RUDDER	.000		

SYMBOL Z/BV BETAT MACH

()	.58	7.140	1.555
[]	.316	9.190	
◇	.600		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RBCV02)	OPEN	AMES 97-707 1A9 C2A + S3 + 19 LEFT VERTICAL
(RBCR02)	FLAGGED	AMES 97-707 1A9 C2A + S3 + 19 RIGHT VERTICAL



PARAMETRIC VALUES

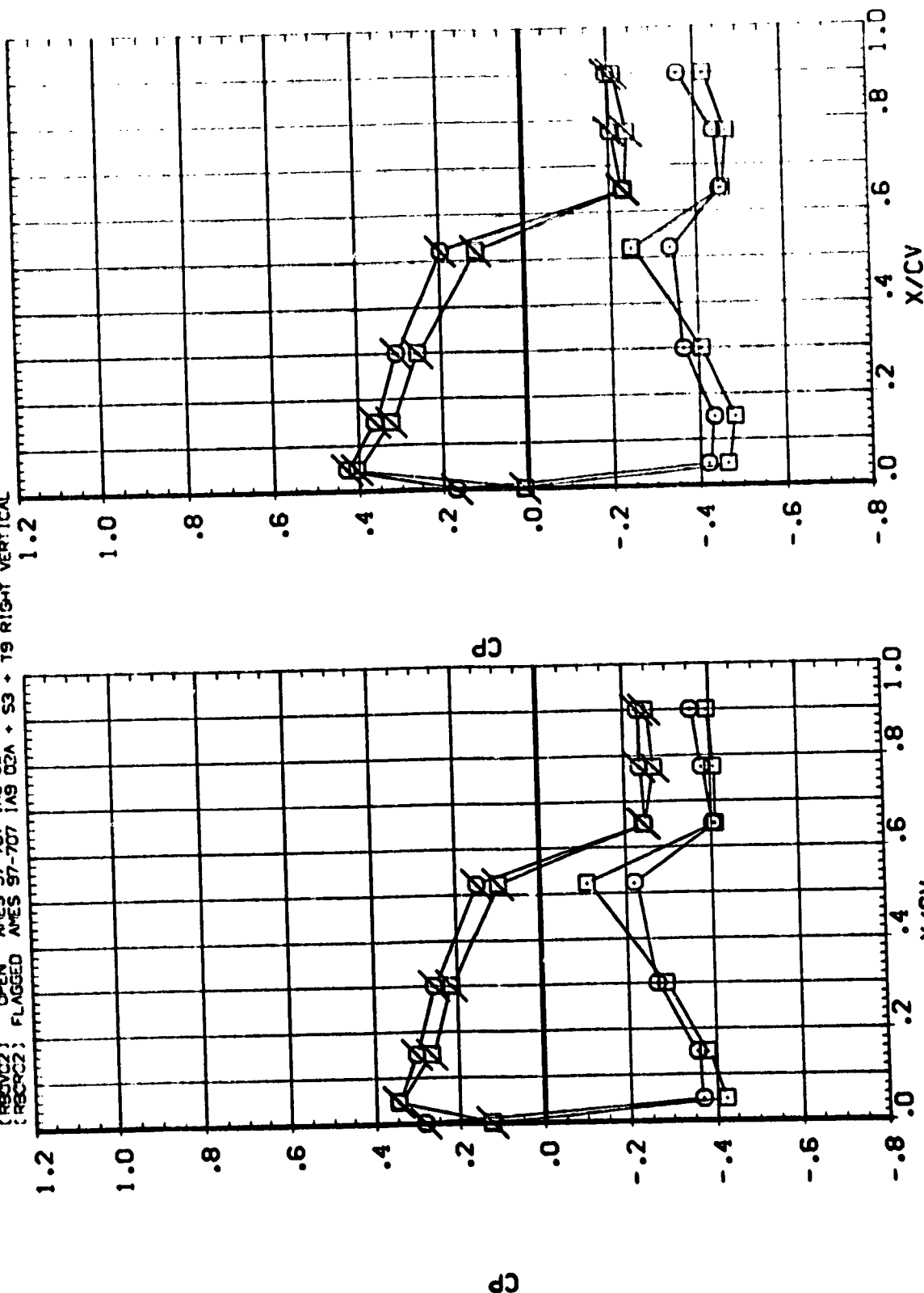
ALPHAT	8.000	CRSINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

SYMBOL Z/BV BETAT MACH

□	.840	7.140	1.555
□	.925	9.190	

DATA SET SYMBOL CONFIGURATION DESCRIPTION

[RBCVC2]	OPEN	AMES 97-707 1A9 02A + S3 + 19 LEFT VERTICAL
[RBCVC2]	FLAGGED	AMES 97-707 1A9 02A + S3 + 19 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

III

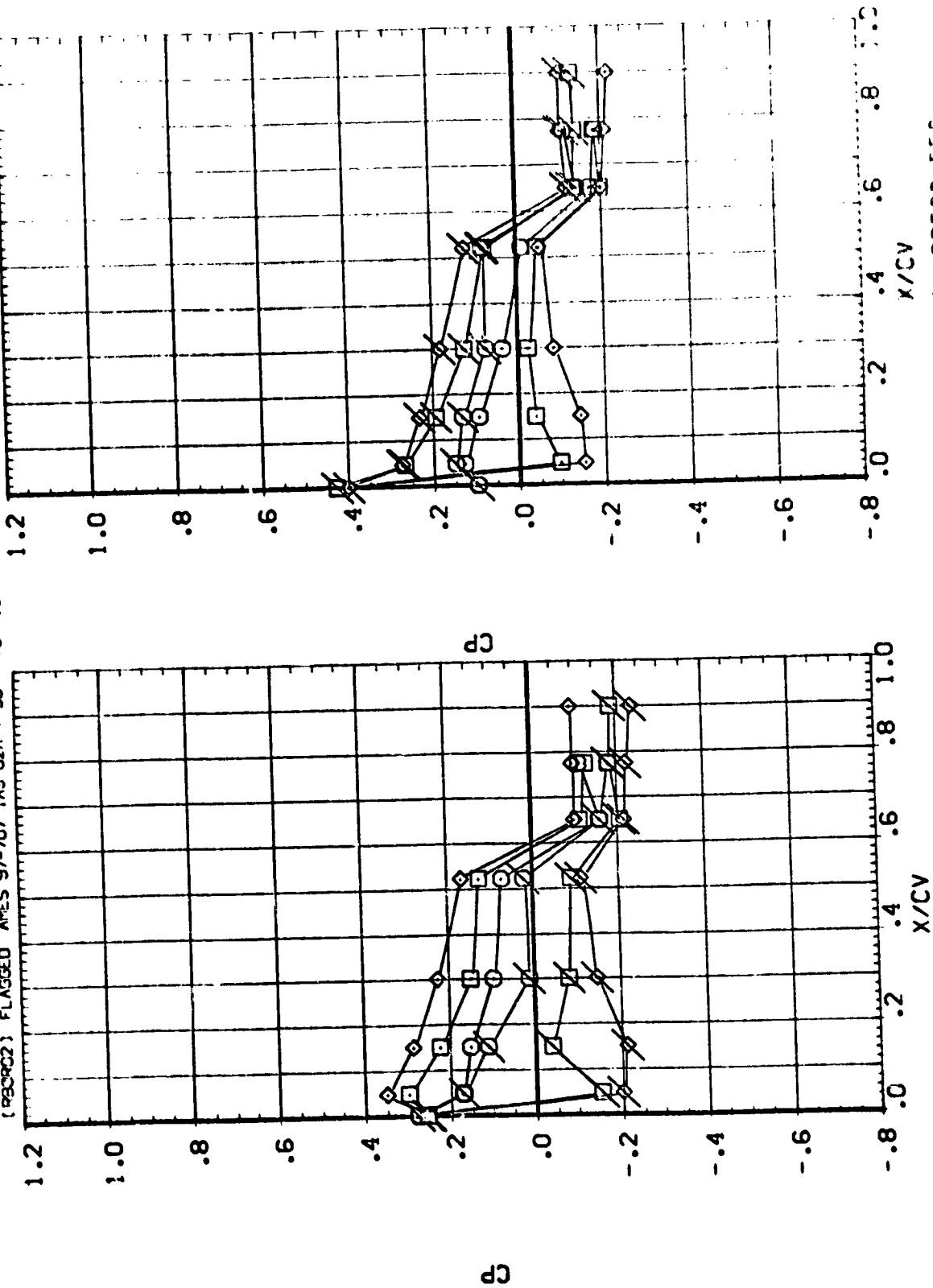
SYMBOL Z/BV
 .158
 .316
 .600

BETAT
 -6.270
 3.990

MACH
 2.000

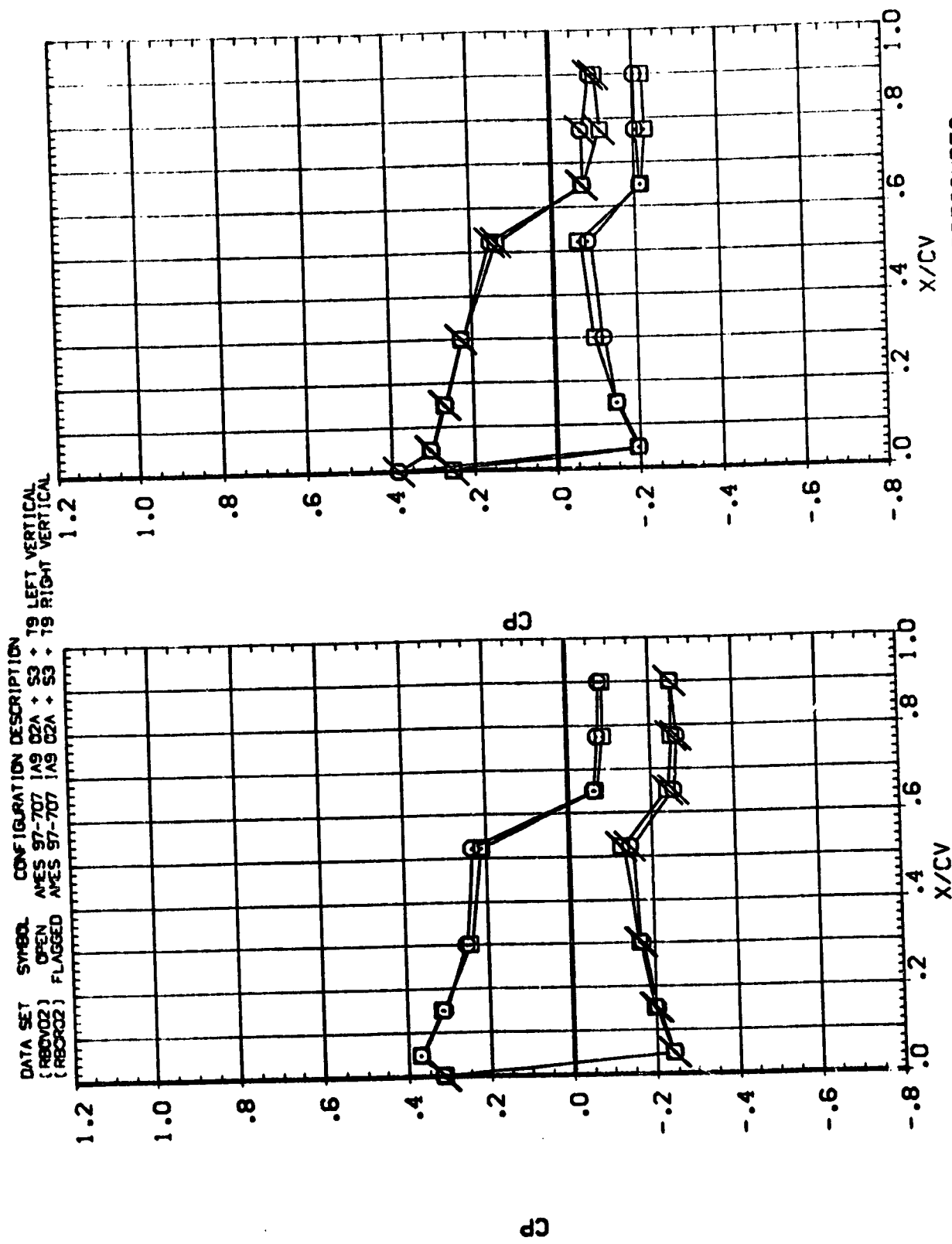
PARAMETRIC VALUES
 ALPHAT 8.000
 RUDDER .000
 ROLLER .000
 .500
 .000
 .000
 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBCVC2) AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
 (RBCRC2) AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BN	BETAT	MACH	ALPHAT	8.000	0.000	0.500
	.940	-6.270	2.000	RUDER	.000	.000	.000
	.925	3.980		RUDFLR	.000	.000	.000



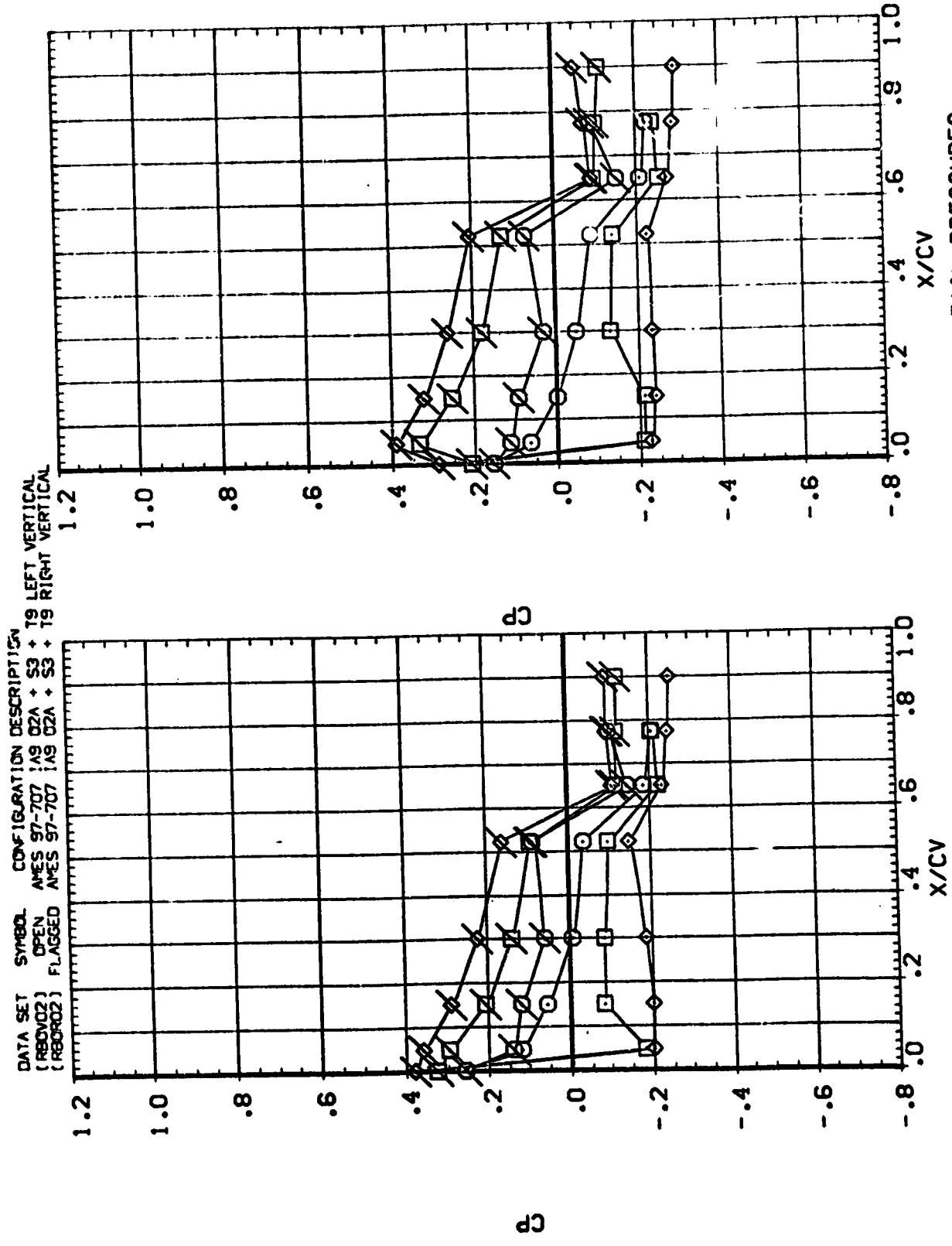
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

III

SYMBOL Z/BV
 .158
 .316
 .600

BETAT MACH
 6.060 2.000
 8.120

PARAMETRIC VALUES
 ALPHAT 8.000
 RUDDER .000
 RUDDER .000
 CRIBINC .500
 ELEVON .000



PARAMETRIC VALUES

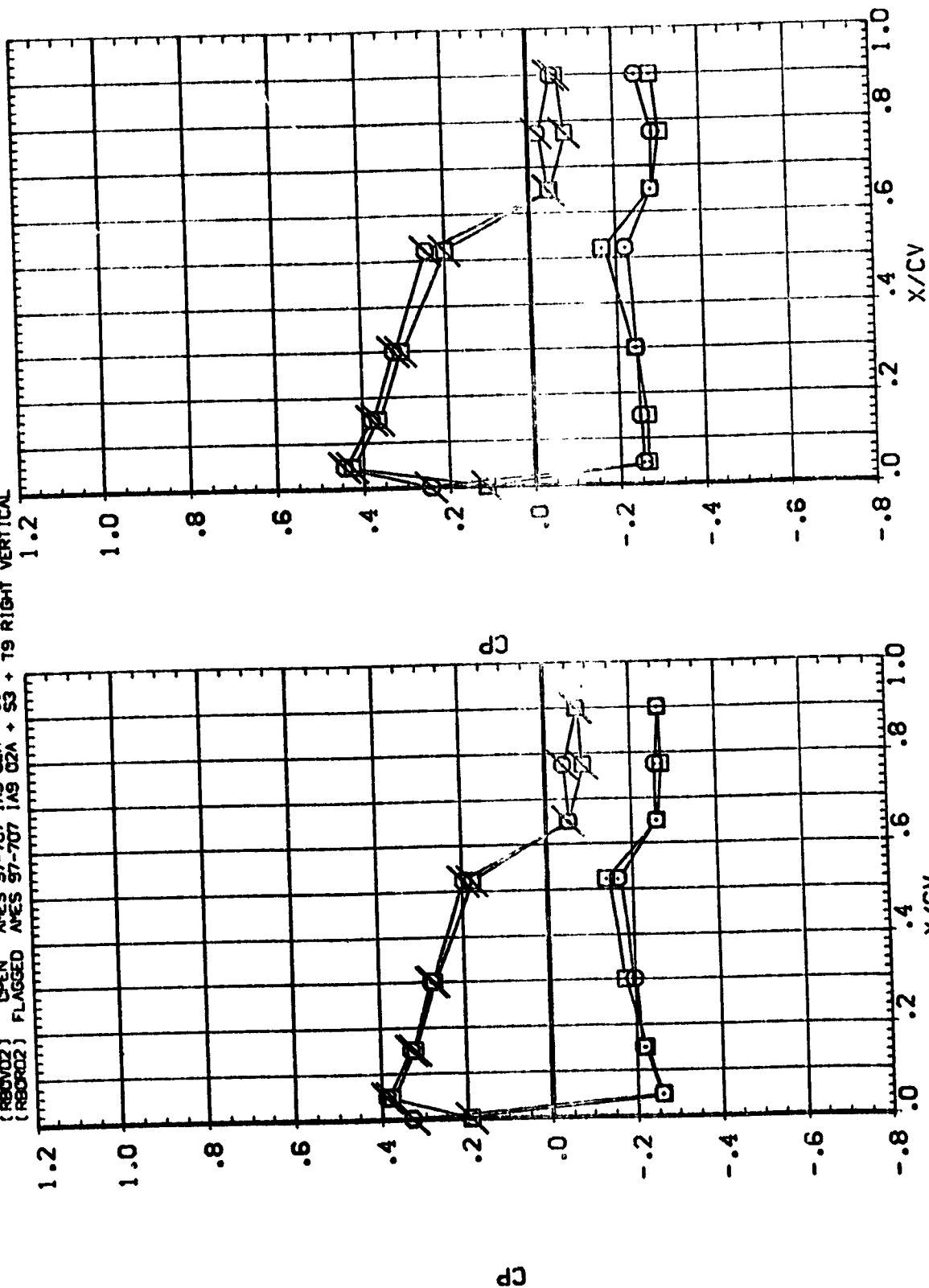
ALPHA	8.000	ORGINC	.500
RUDDER	.000	ELEVON	.000
RUCFLR	.000		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RBOV02)	CPEN	AVES 57-707 1A9 02A + S3 + 19 LEFT VERTICAL
(RBOV02)	FLAGGED	AVES 57-707 1A9 02A + S3 + 19 RIGHT VERTICAL

SYMBOL Z/BV BETAT MACH

○	.840	6.060	2.000
□	.925	8.120	



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

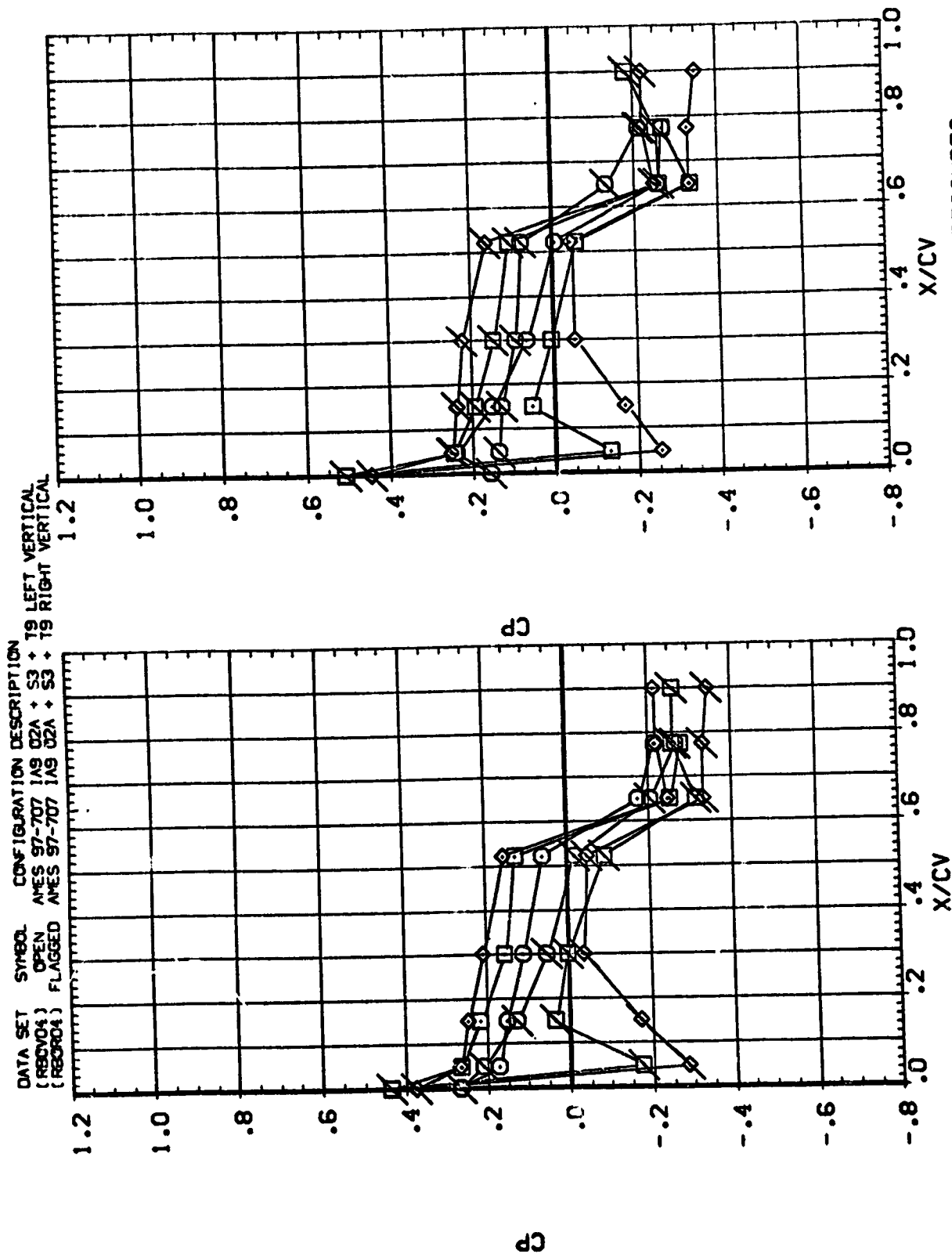
== 39

SYMBOL Z/BN .158
 .316
 .600

BETAT -5.070
 5.060

MACH 1.555

PARAMETRIC VALUES
 ALPHAT 4.000
 RUDDER .000
 RUOFLR .000
 CRBINC .500
 ELEVON .000



PARAMETRIC VALUES

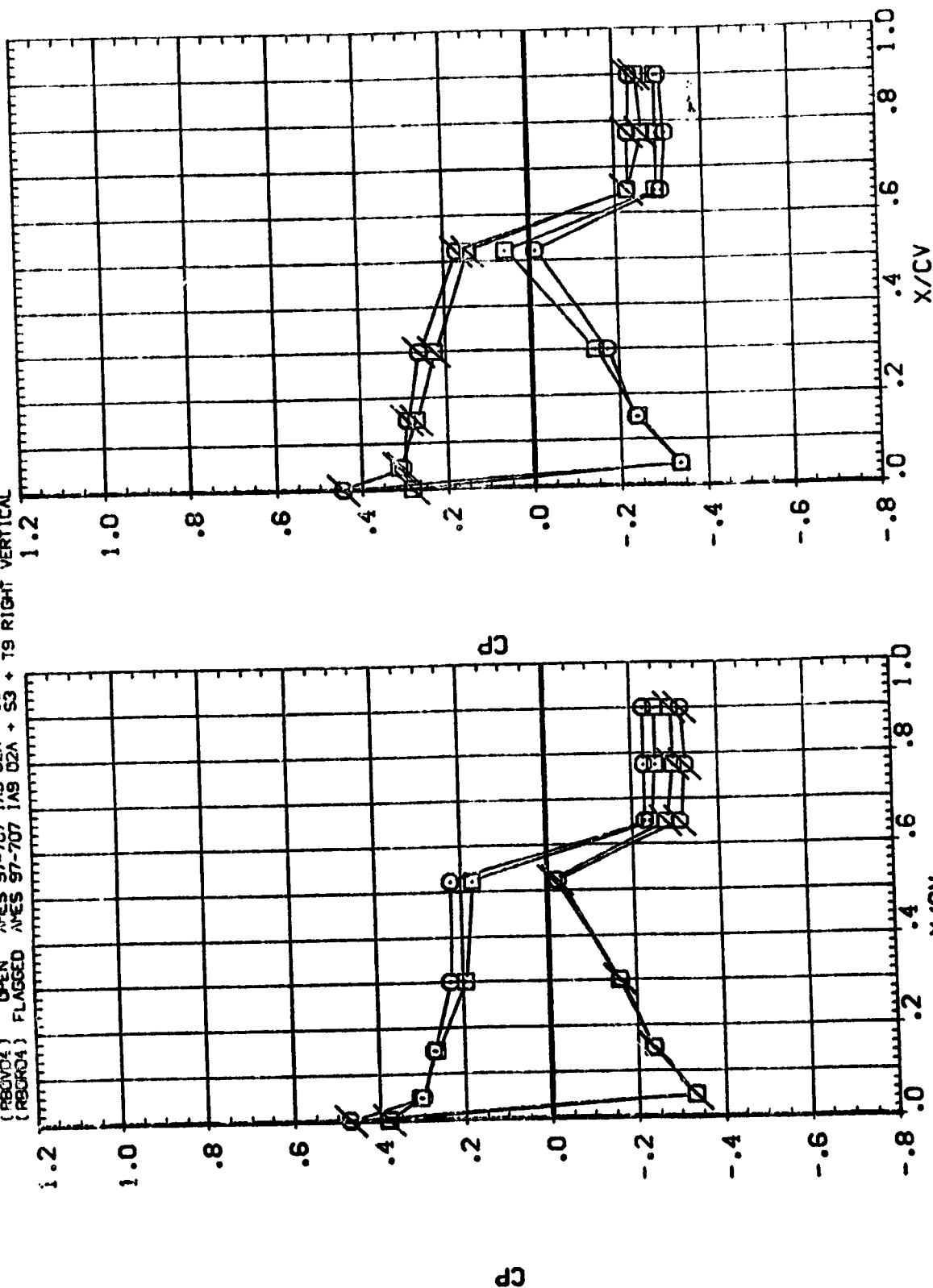
ALPHA1	4.000	ORBIT	.500
PLODER	.000	ELEVON	.000
ROFLR	.000		

SYMBOL

Z/B	BETAT	MACH
.940	-5.070	1.555
.925	5.060	

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RBOVD4)	OPEN	AVES 97-707 IAS 02A + S3 + T9 LEFT VERTICAL
(RBOVD4)	FLAGGED	AVES 97-707 IAS 02A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

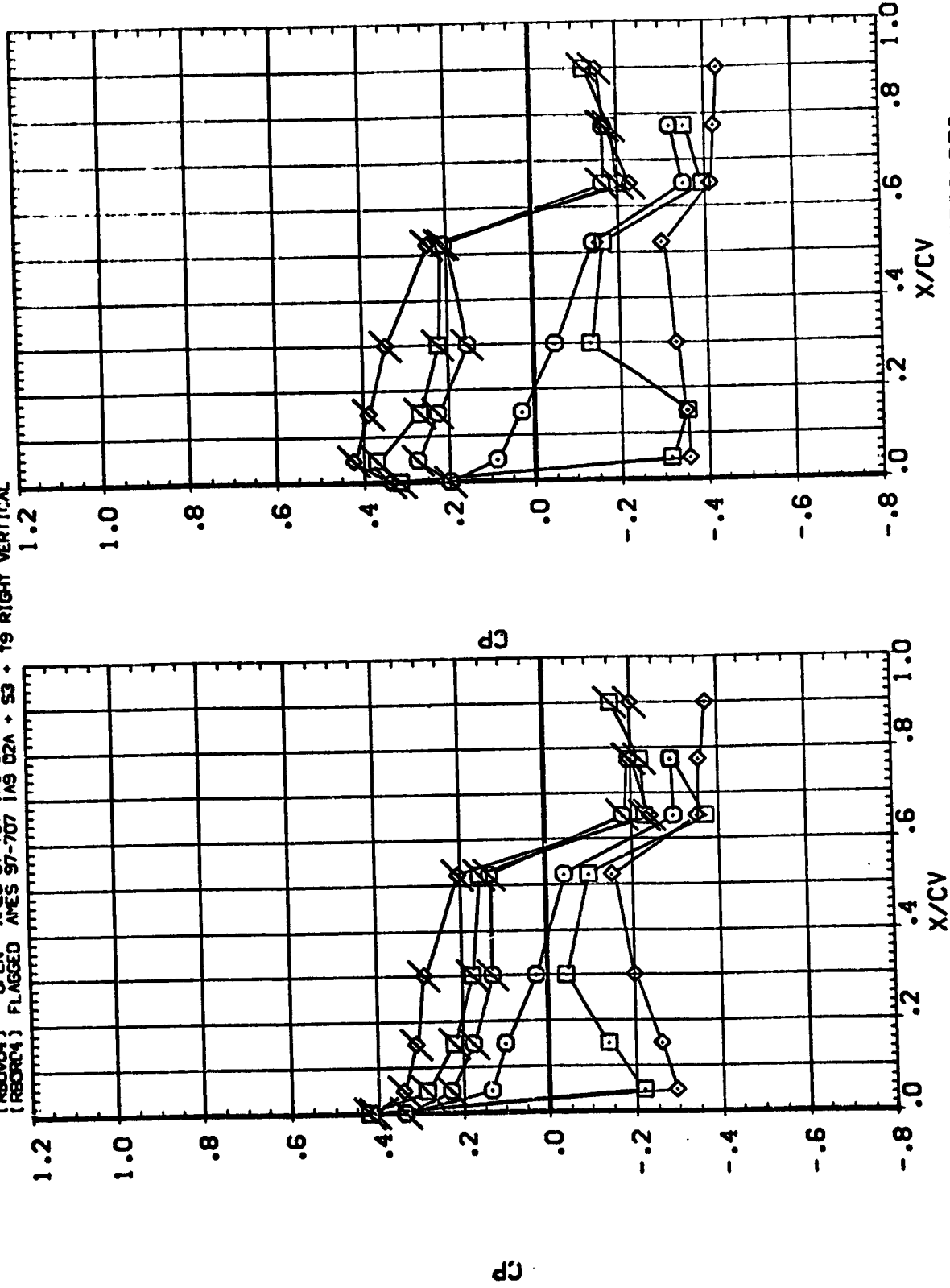
ALPHAT	4.000	0.951 NC	.500
RUDDER	.000	ELEVON	.000
RUOFLR	.000		

SYMBOL Z/BV BETAT MACH

○	.158	7.080	1.555
□	.316	9.100	
◇	.600		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RBOV04)	OPEN	AMES 97-707	IAS 02A + S3 + T9	LEFT VERTICAL
(RBOV04)	FLAGGED	AMES 97-707	IAS 02A + S3 + T9	RIGHT VERTICAL



PARAMETRIC VALUES

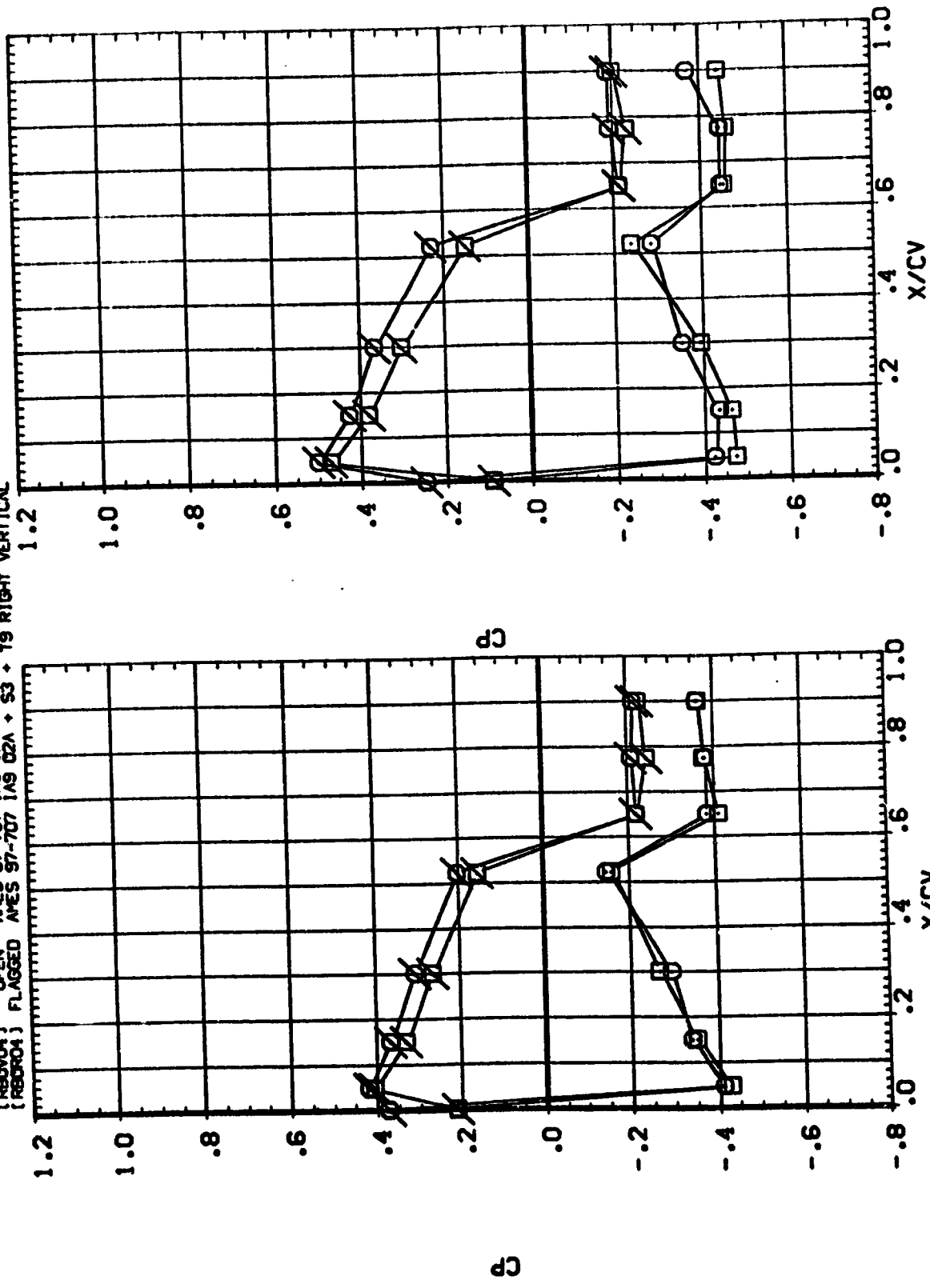
ALPHAT	4.000	ORBITC	.500
RUDDER	.000	ELEVON	.000
RUOFLR	.000		

SYMBOL Z/BV BETAT MACH

□	.840	7.080	1.555
□	.525	9.100	

DATA SET SYMBOL CONFIGURATION DESCRIPTION

[RBDV04]	OPEN	AVES 97-707	IA9 O2A + S3 + T9 LEFT VERTICAL
[RBDV04]	FLAGGED	AVES 97-707	IA9 O2A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

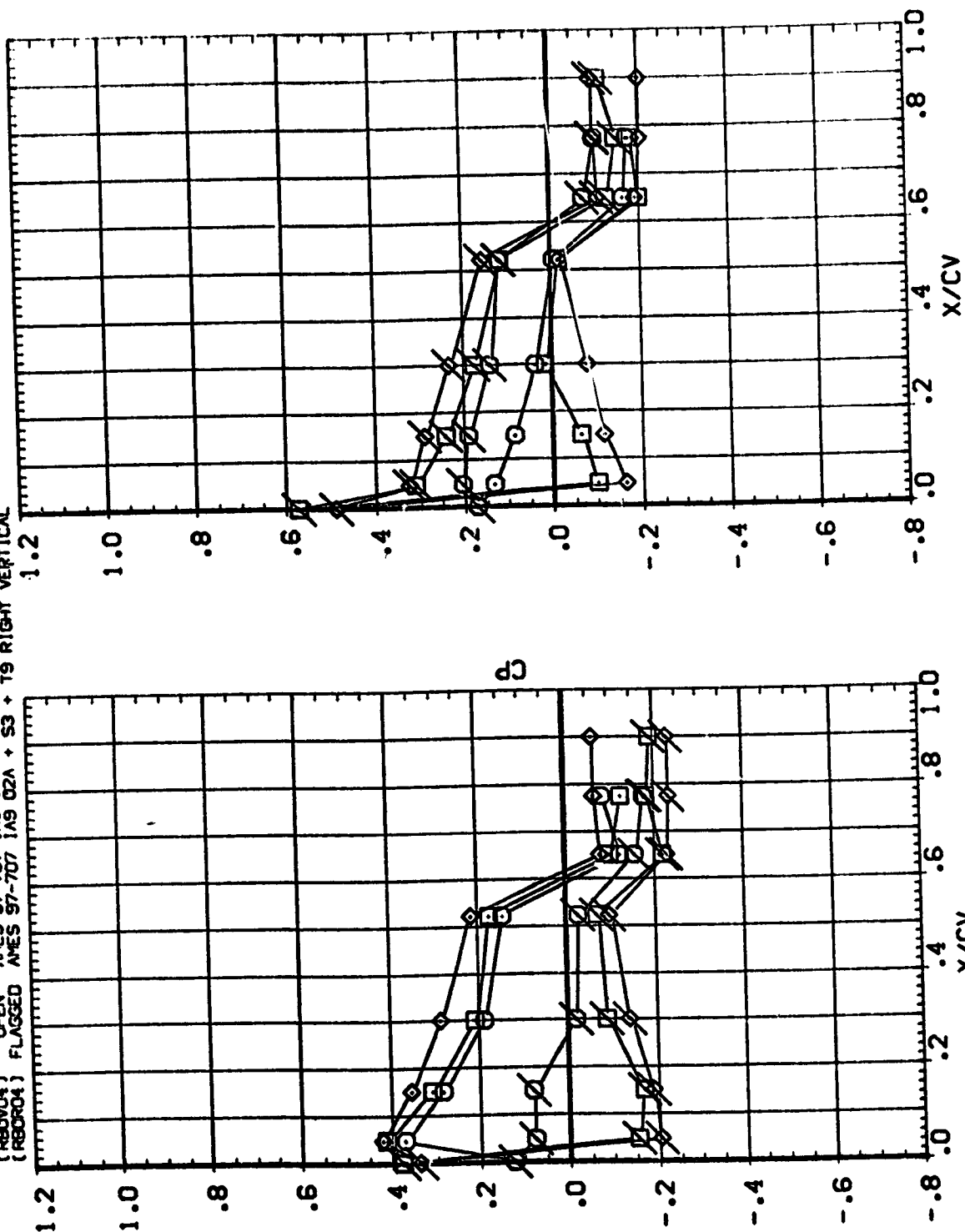
III

SYMBOL Z/8V
 ○ .158
 □ .316
 ◇ .600

BETAT MACH
 -6.240 2.000
 3.950

PARAMETRIC VALUES
 ALPHAT 4.000
 RUDDER .000
 RUOFLR .000
 ORBINC .500
 ELEVON .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBDV04) OPEN ANES 97-707 IAS 02A + S3 + T9 LEFT VERTICAL
 (RBDV04) FLAGGED ANES 97-707 IAS 02A + S3 + T9 RIGHT VERTICAL



PARAMETRIC VALUES

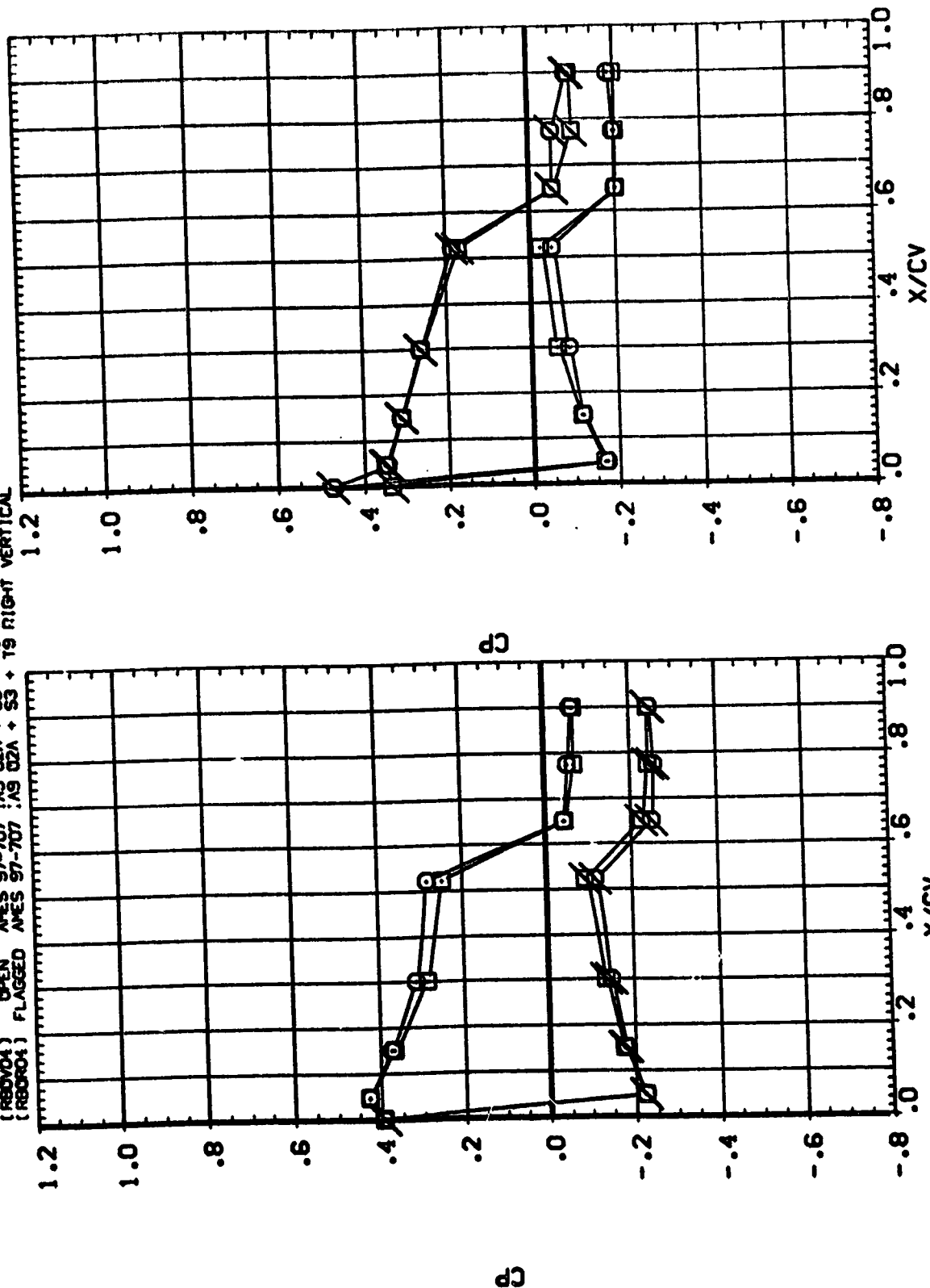
ALPHAT	4.000	ORGINC	.500
RUDDER	.000	ELEVON	.000
RLOFLR	.000		

SYMBOL Z/BV BETAT MACH

○	.840	-6.240	2.000
□	.925	3.950	

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RBDY04)	OPEN	AMES 97-707	1A9 02A + S3 + 19 LEFT VERTICAL
(RBDY04)	FLAGGED	AMES 97-707	1A9 02A + S3 + 19 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

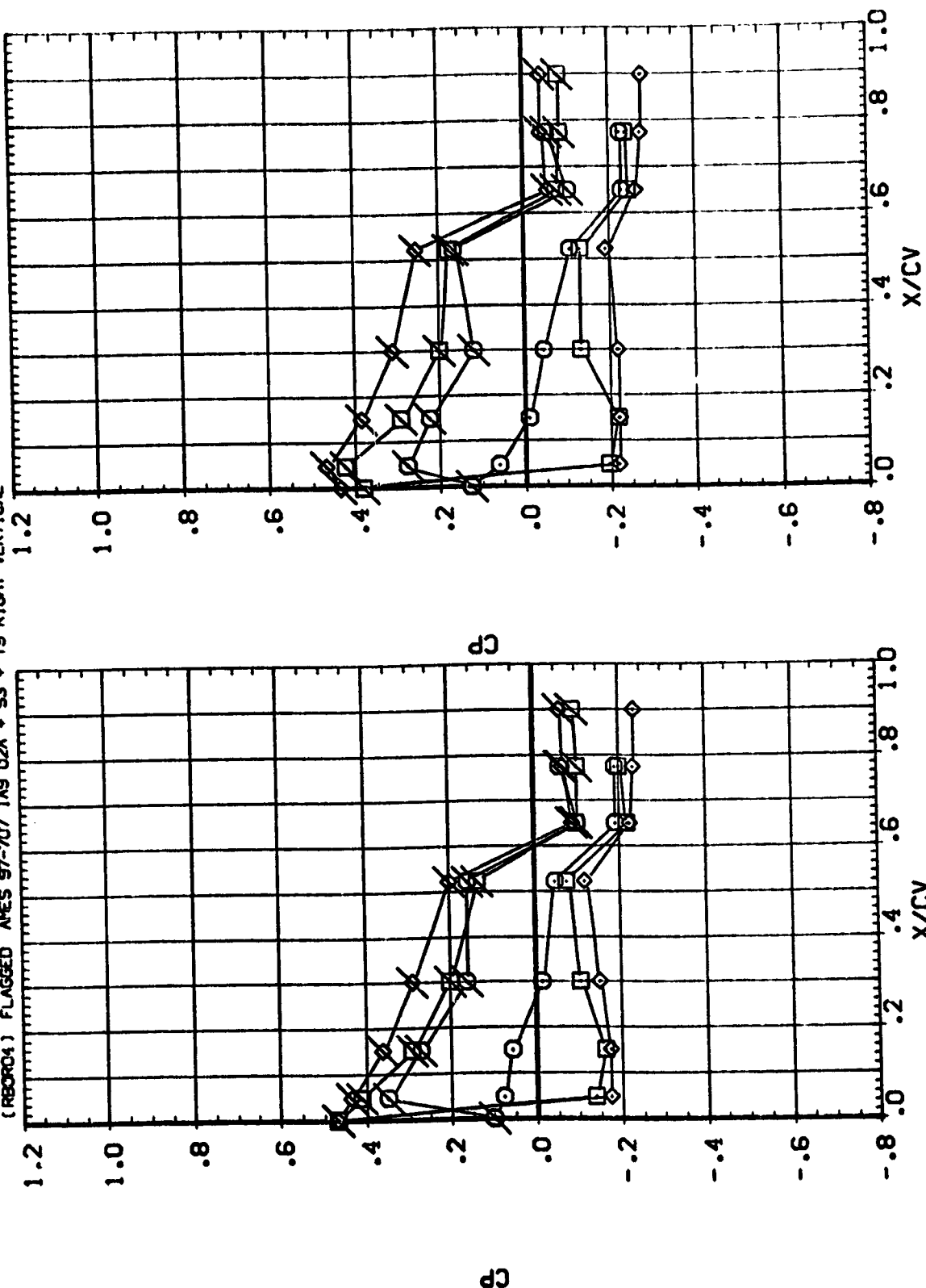
ALPHAT	4.000	ORBNIC	.500
RUDDER	.000	ELEVON	.000
RJDFLR	.000		

SYMBOL Z/BV BETAT MACH

□	.158	5.990	2.000
◇	.316	8.030	
◇	.600		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(REBVC4)	OPEN	AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
(REBVC4)	FLAGGED	AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL \square

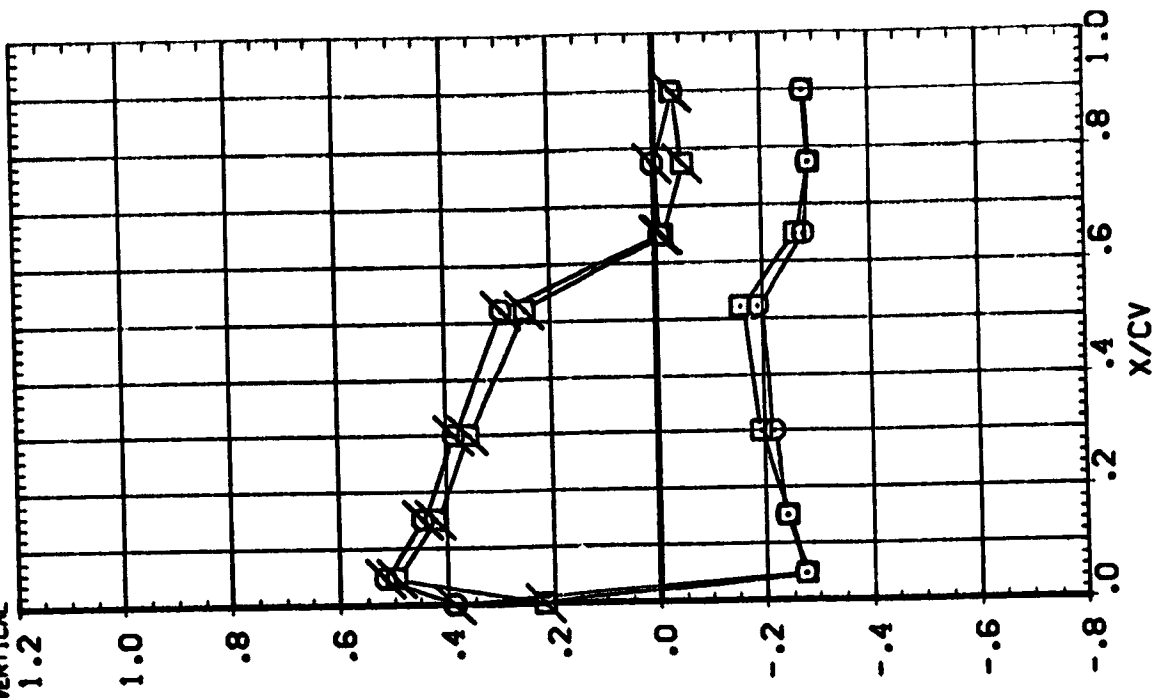
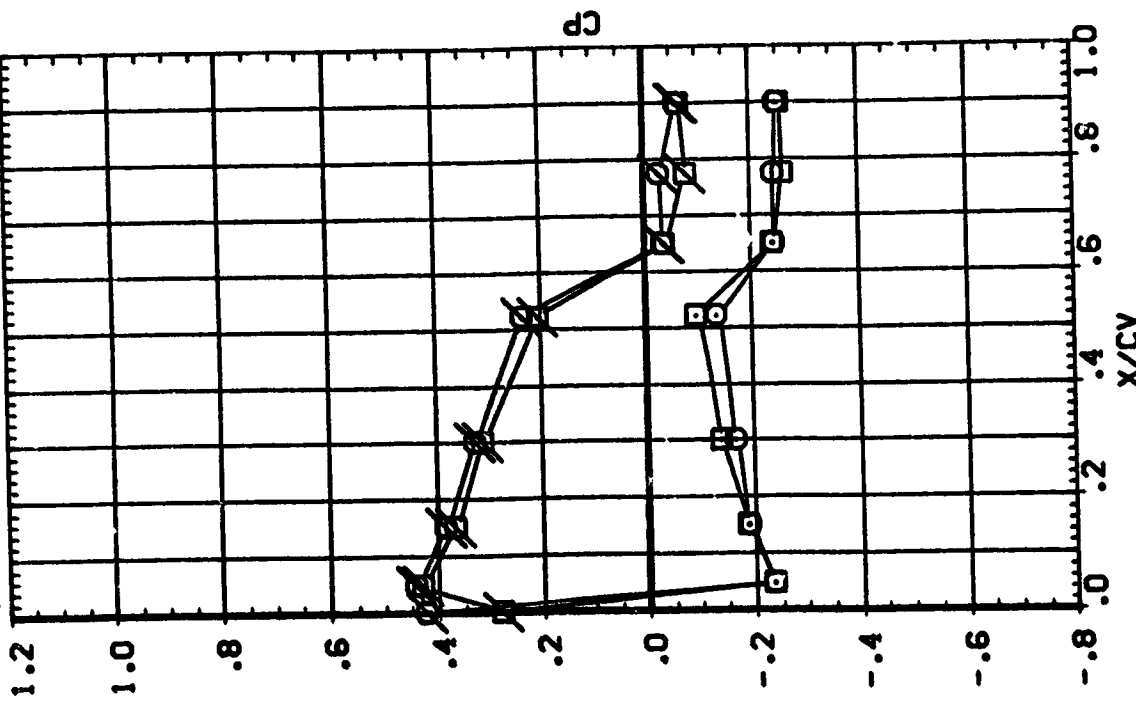
Z/BN .940
.925

BETAT 5.990
8.000

MACH 2.000

PARAMETRIC VALUES
ALPMAT 4.000
RUDER .000
RJDFLR .000
ORGINC .500
ELEVON .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(RBDV04) OPEN AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RBDV04) FLAGGED AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

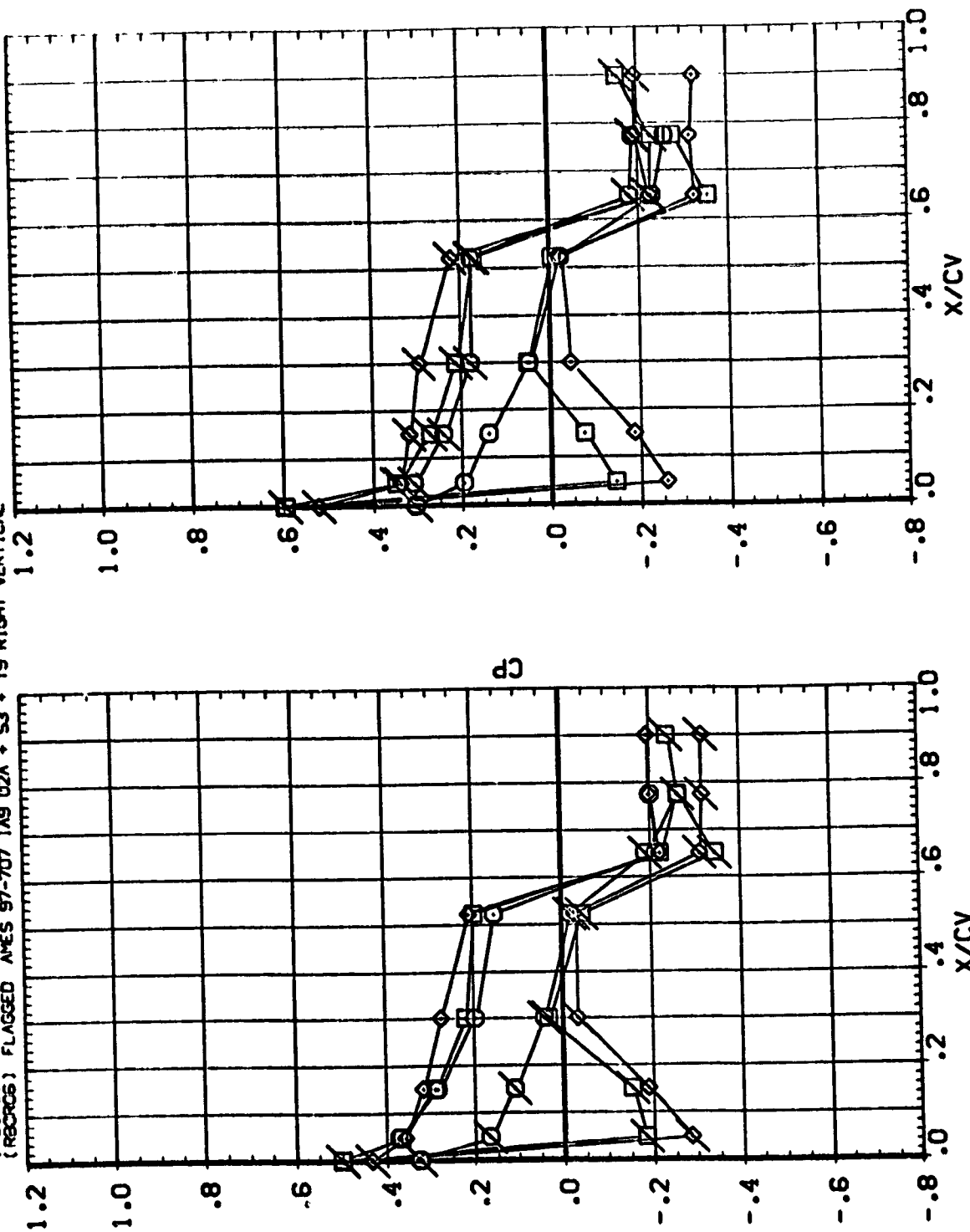
III

SYMBOL Z/BV
 ○ .158
 □ .316
 ◇ .600

BETAT MACH
 -5.080 1.555
 5.050

PARAMETRIC VALUES
 ALPHAT .000 ORGINC .500
 PUDDER .000 ELEVON .000
 RUOFLR .000

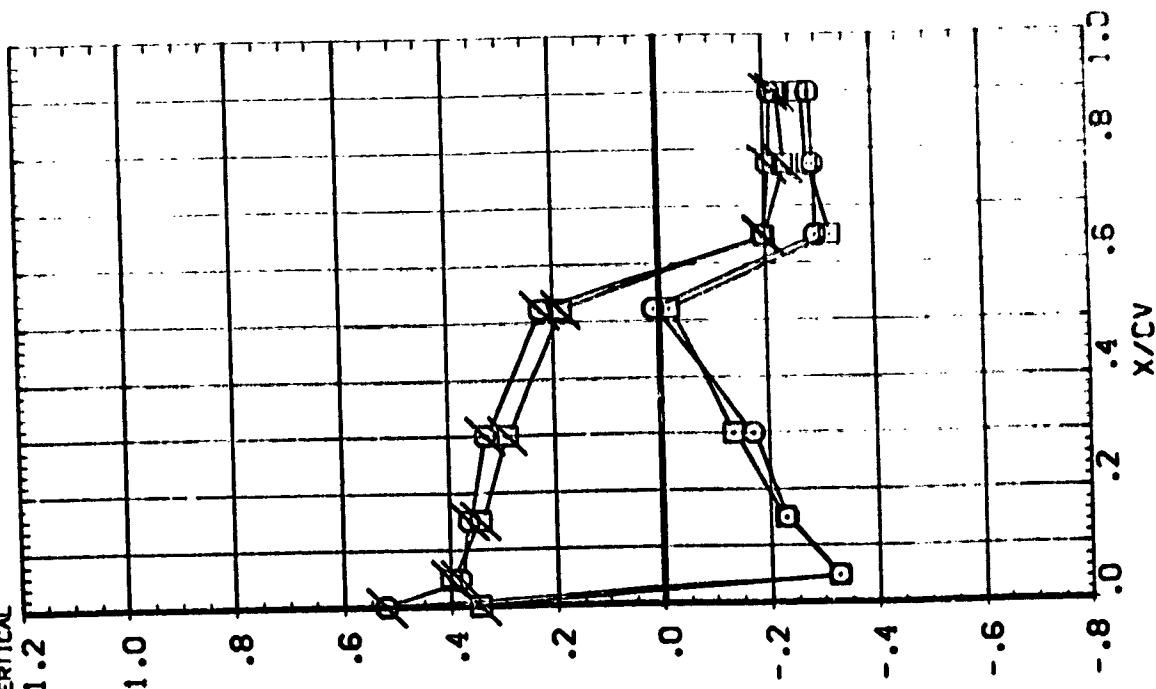
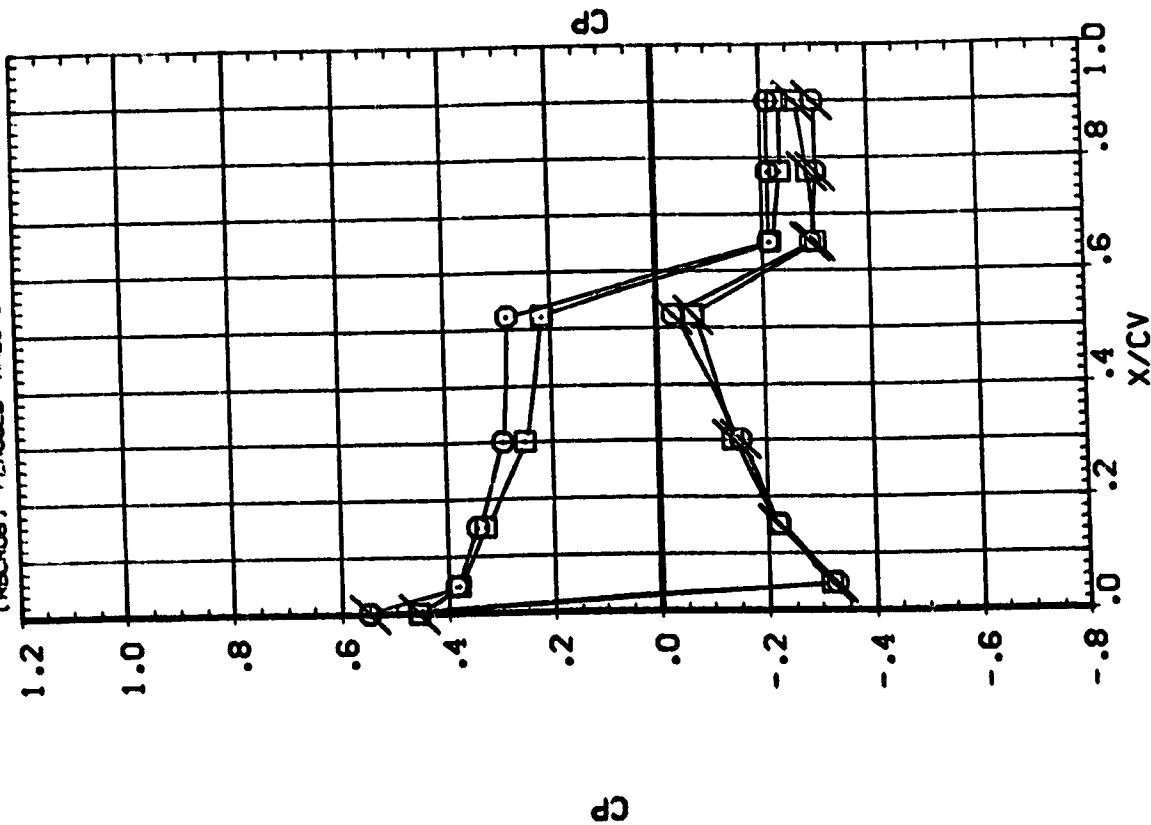
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RECV06) OPEN AMES 97-707 IAS 02A + S3 + T9 LEFT VERTICAL
 (RECV06) FLAGGED AMES 97-707 IAS 02A + S3 + T9 RIGHT VERTICAL



1.555
MACH

PARAMETRIC VALUES	
ALPHAT	.000
BORDER	.000
RODPLR	.000
	.500
	.100

DATA SET	SYMBOL	CONFIGURATION	DESCRIPTION
(REBOVS)	OPEN	AMES 97-707 IAG 02A + S3 + T9	LEFT VERTICAL
(REBOVS)	F1 AGED	AMES 97-707 IAG 02A + S3 + T9	RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

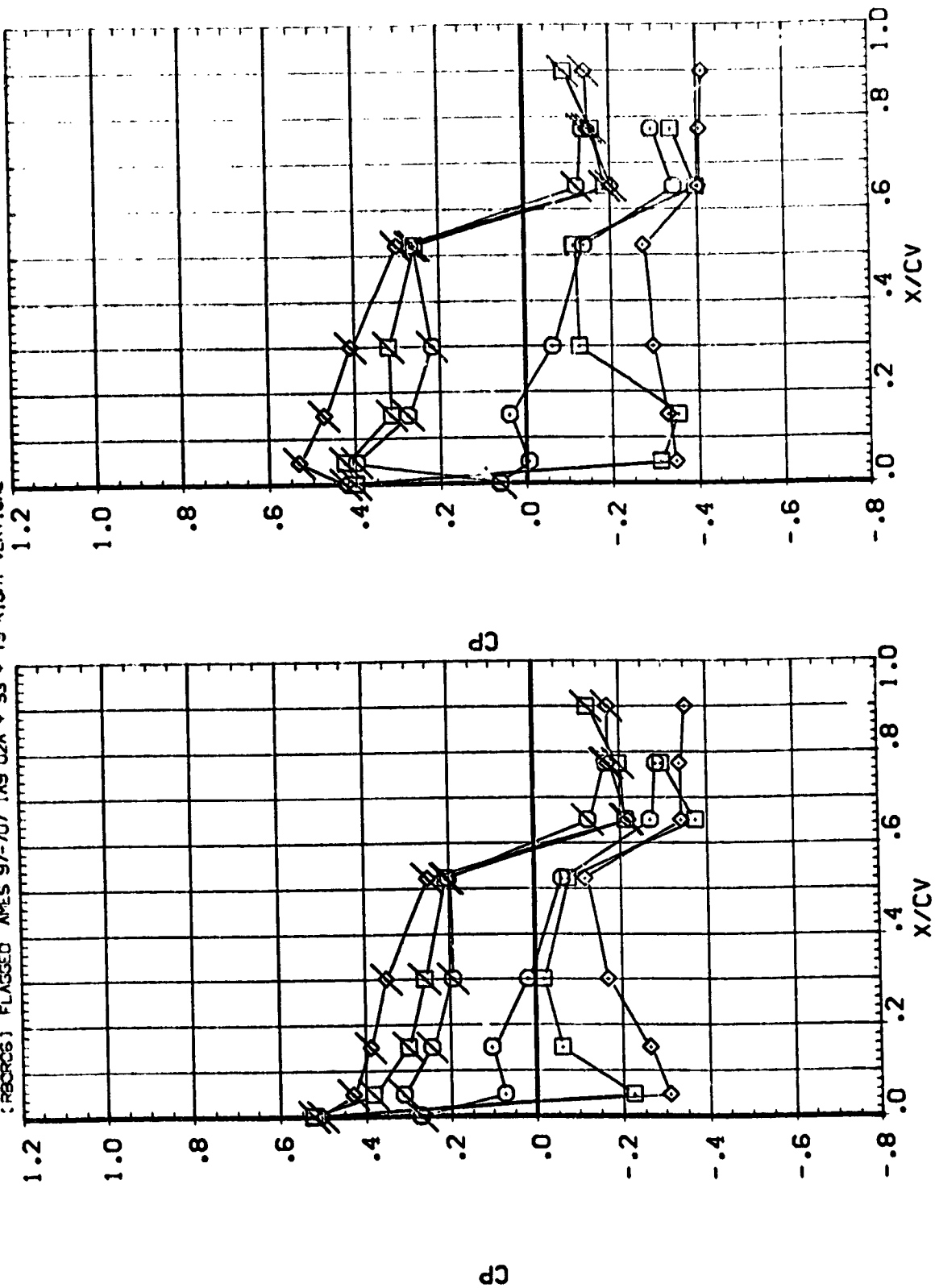
ALPHAT	.000	.500
RUDER	.000	.000
RUDFLR	.000	.000

SYMB: Z/BV BETAT MACH

.158	7.060	1.555
.316	9.090	
.600		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RBCVCS)	OPEN	AMES 97-707 (A9 02A + S3 + 19 LEFT VERTICAL
(RBCVCS)	FLAGGED	AMES 97-707 (A9 02A + S3 + 19 RIGHT VERTICAL

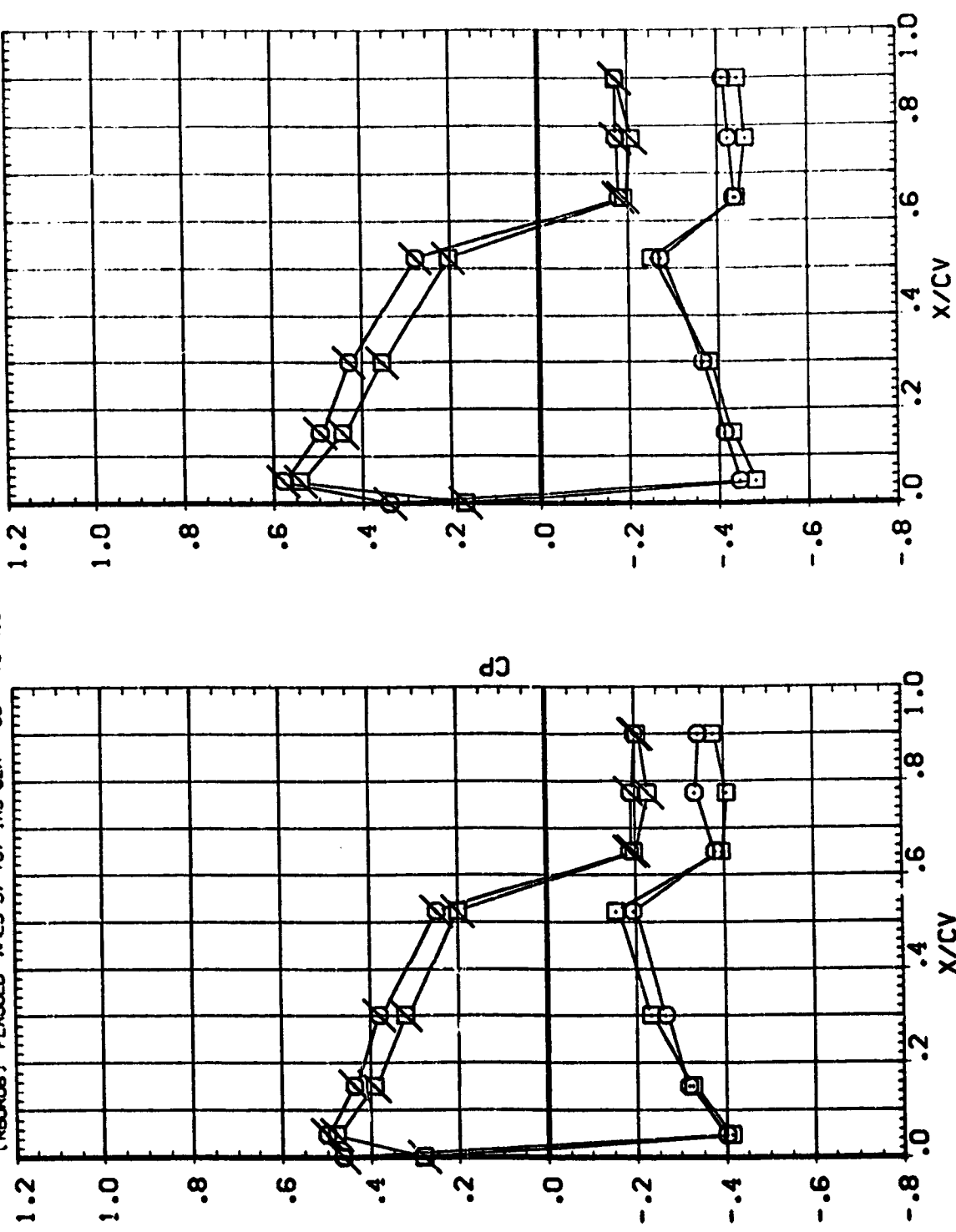


SYMBOL
☐ ☐

Z/BV .840
 .925
 BETAT 7.060
 9.090
 MACH 1.555

PARAMETRIC VALUES
 .000 .500
 .000 .000
 .000 .000
 .000 .000
 ALPHAT
 RUDDER
 RUDDLR

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (REDOVS) OPEN AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
 (REDOVS) FLAGGED AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL

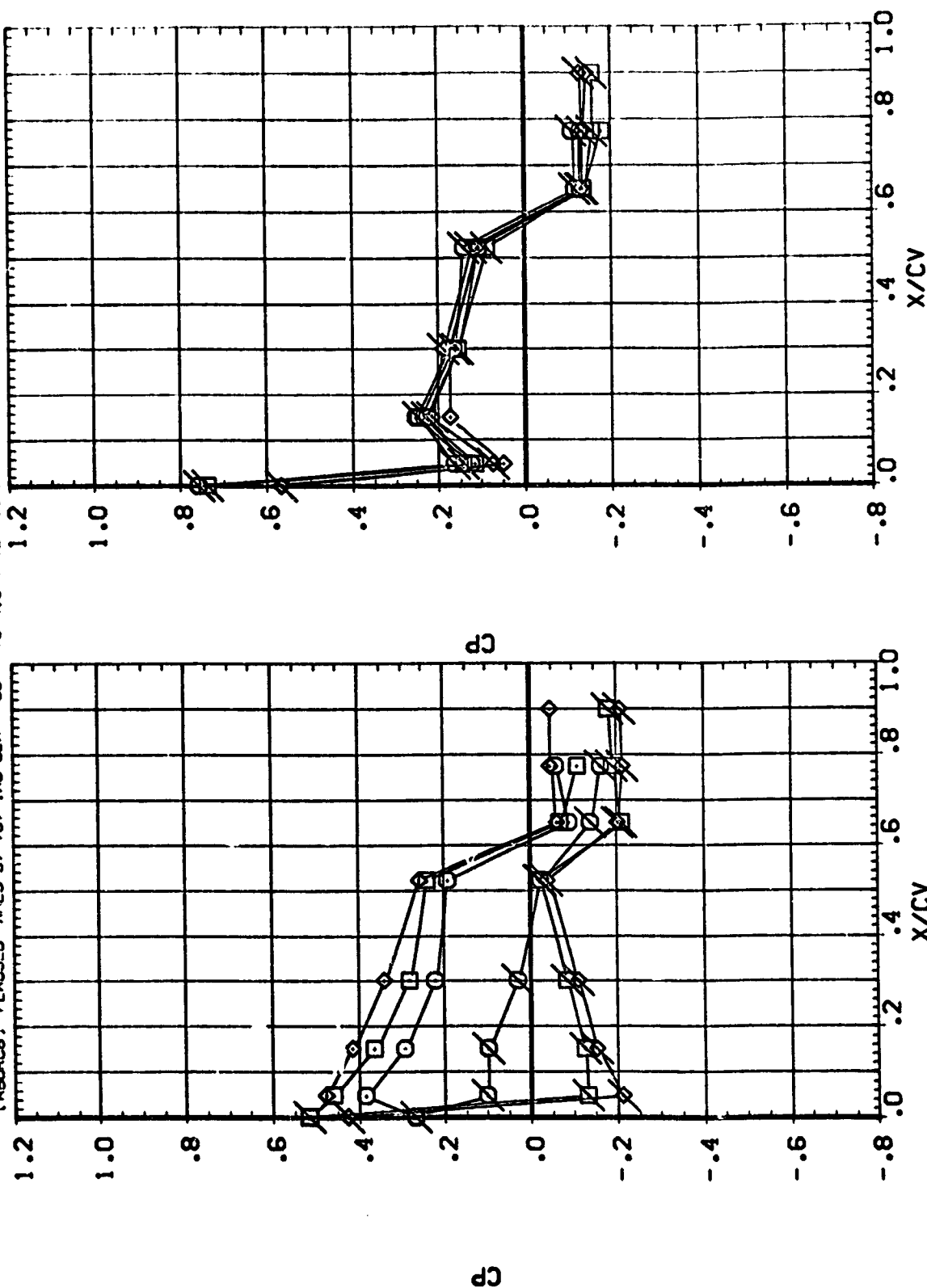


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL Z/BV BETAT MACH
 .158 -6.250 2.000
 .316 -.130
 .600

PARAMETRIC VALUES
 ALPHAT .000 ORBINC .500
 RUDDER .000 ELEVON .000
 RUOFLR .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (REOVOS) OPEN AMES 97-707 1A9 OZA + S3 + T9 LEFT VERTICAL
 (REOVOS) FLAGGED AMES 97-707 1A9 OZA + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

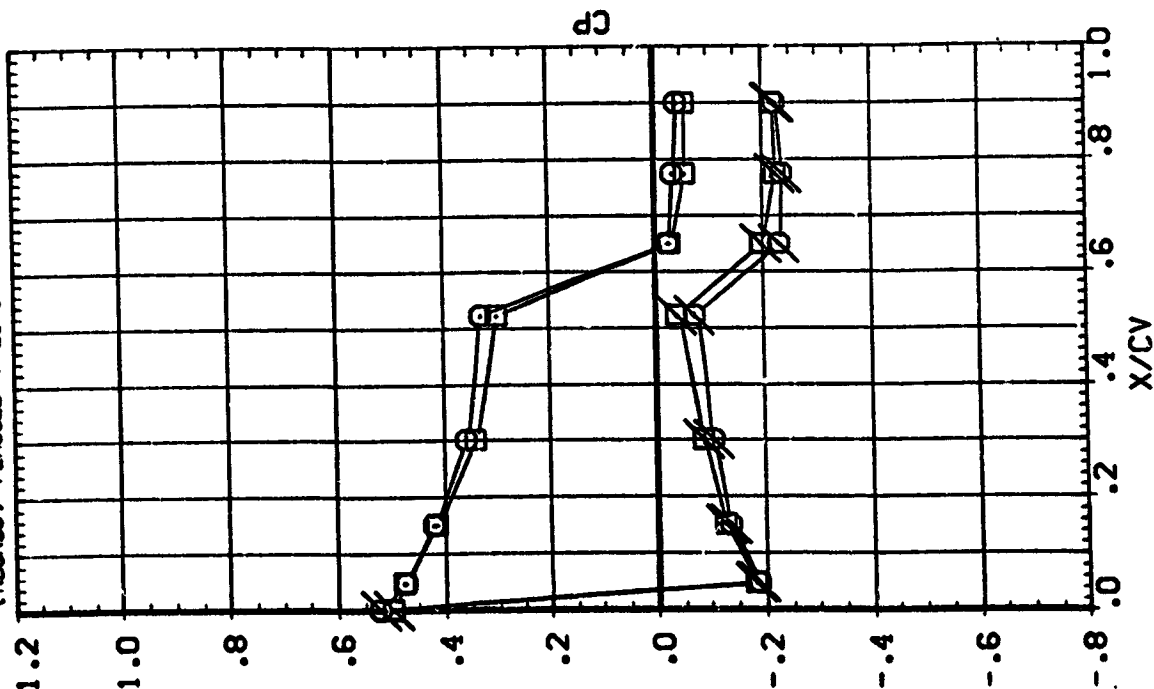
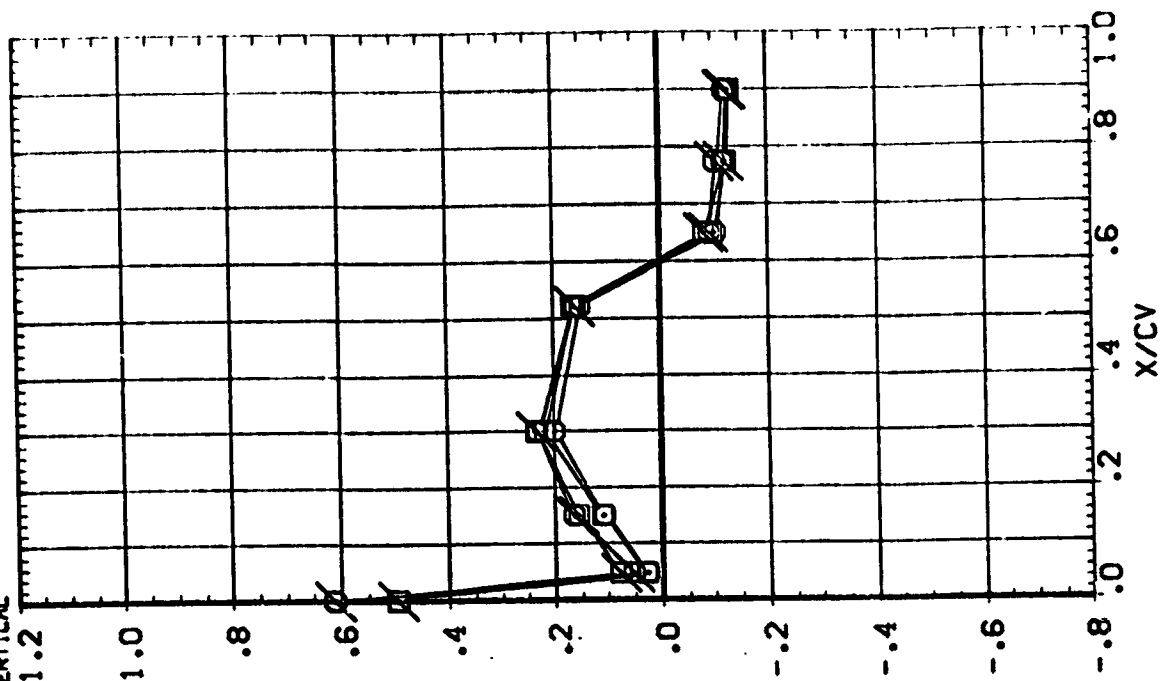
ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RJCFLR	.000		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(REBOROS)	OPEN	AVES 97-707 1A9 02A + S3 + 19 LEFT VERTICAL
(REBOROS)	FLAGGED	AVES 97-707 1A9 02A + S3 + 19 RIGHT VERTICAL

SYMBOL Z/BV BETAT MACH

○	.940	-6.250	2.000
□	.925	-.130	



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

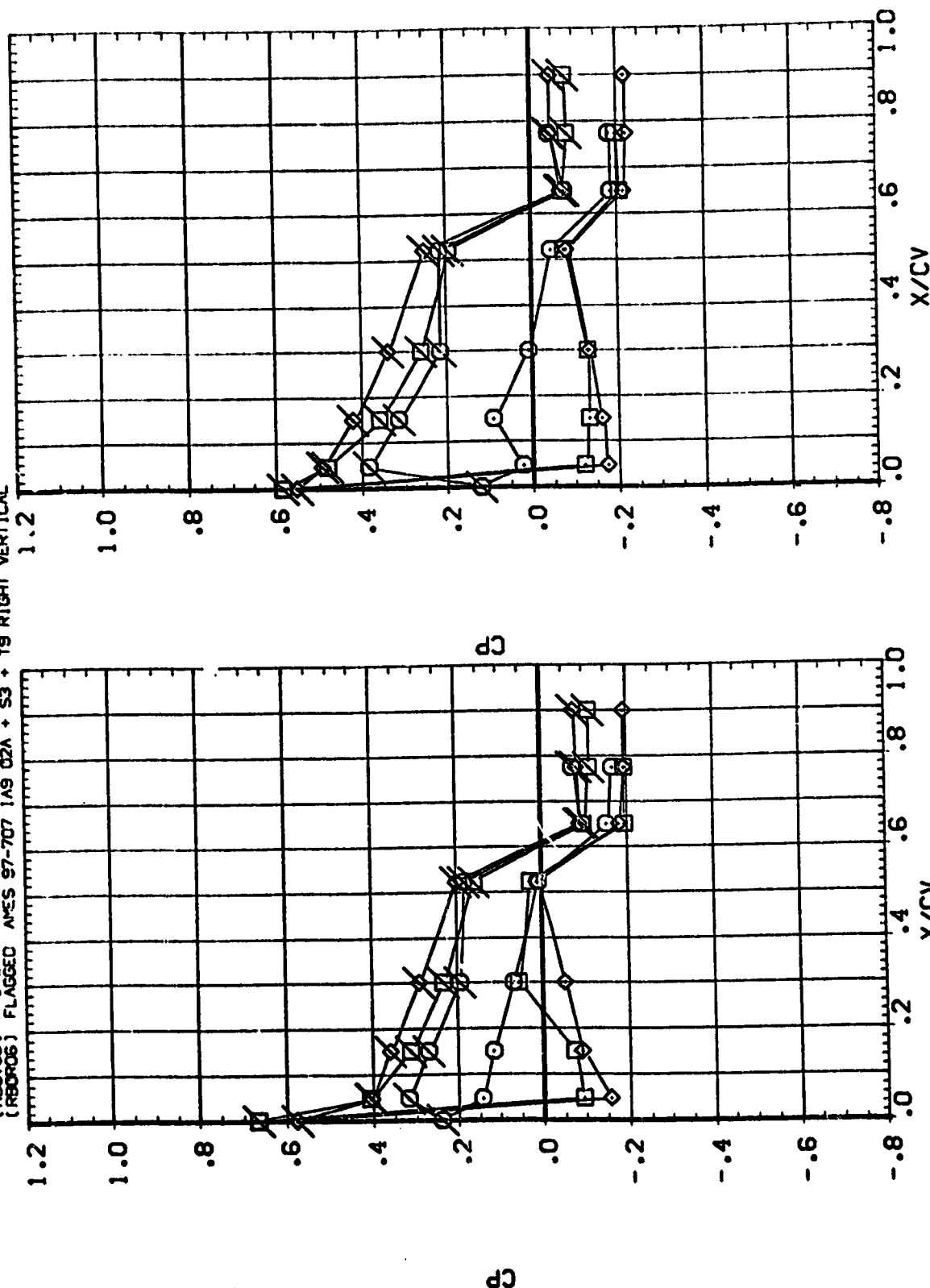
ALPHAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
R25FLR	.000		

SYMBOL Z/BV BETAT MACH

○	.158	3.950	2.000
□	.316	5.980	
◇	.600		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RBOV06)	OPEN	APES 97-707 IAS 02A + S3 + T9 LEFT VERTICAL
(RBOV06)	FLAGGED	APES 97-707 IAS 02A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

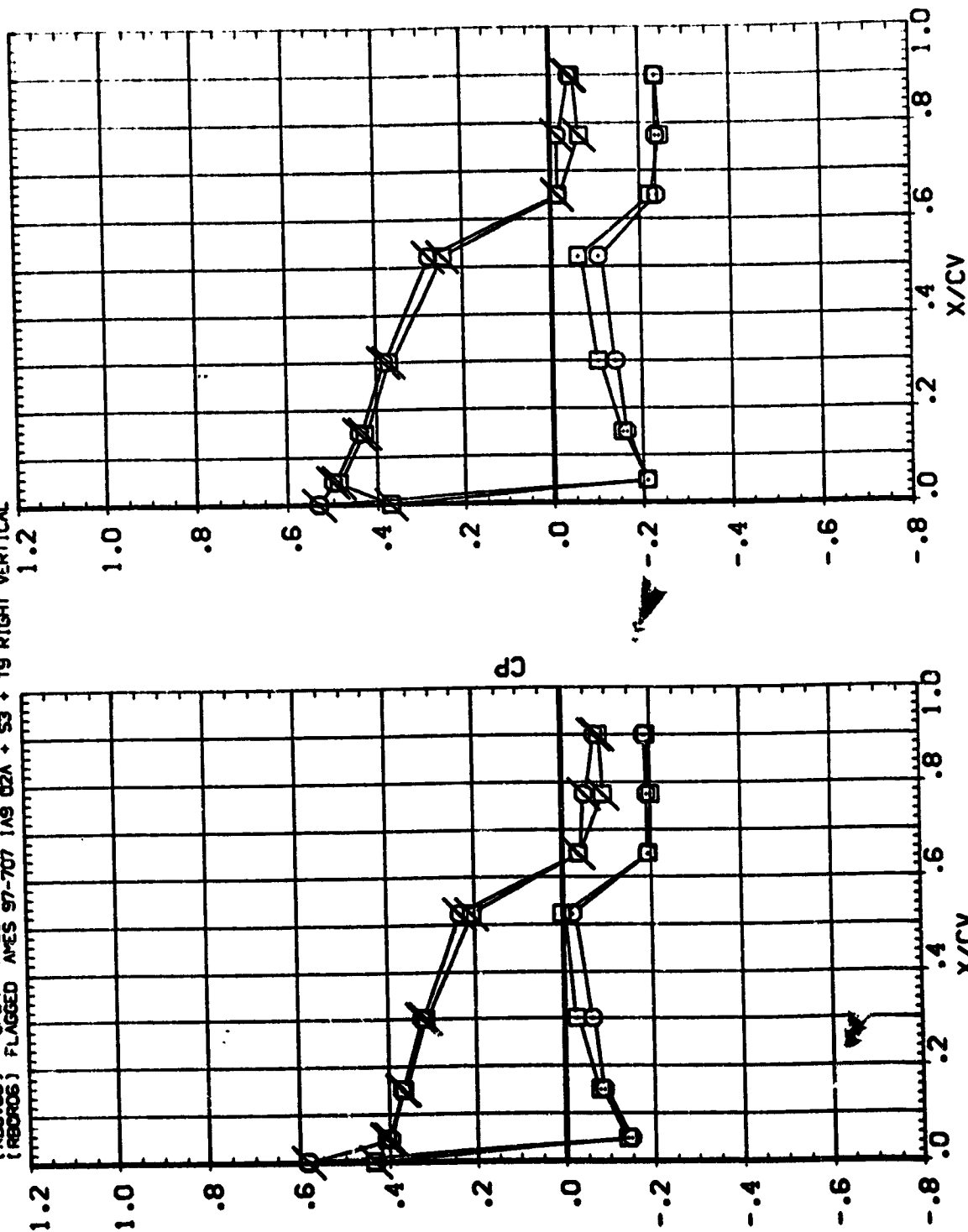
PARAMETRIC VALUES

ALPHAT	.000	ORBITING	.500
RUDDER	.000	ELEVON	.000
RUOFLR	.000		

SYMBOL Z/BV BETAT MACH

○	.840	3.950	2.000
□	.925	5.980	

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBDVOS) OPEN AVES 97-707 IAS 02A + S3 + T9 LEFT VERTICAL
 (RBDVOS) FLAGGED AVES 97-707 IAS 02A + S3 + T9 RIGHT VERTICAL



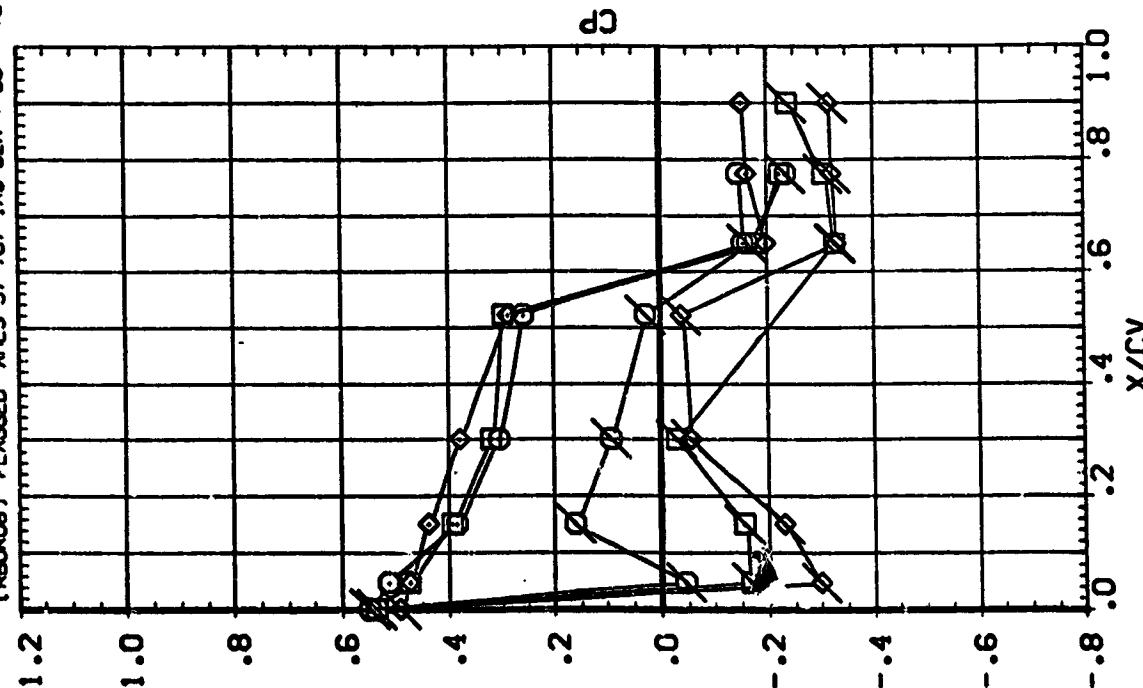
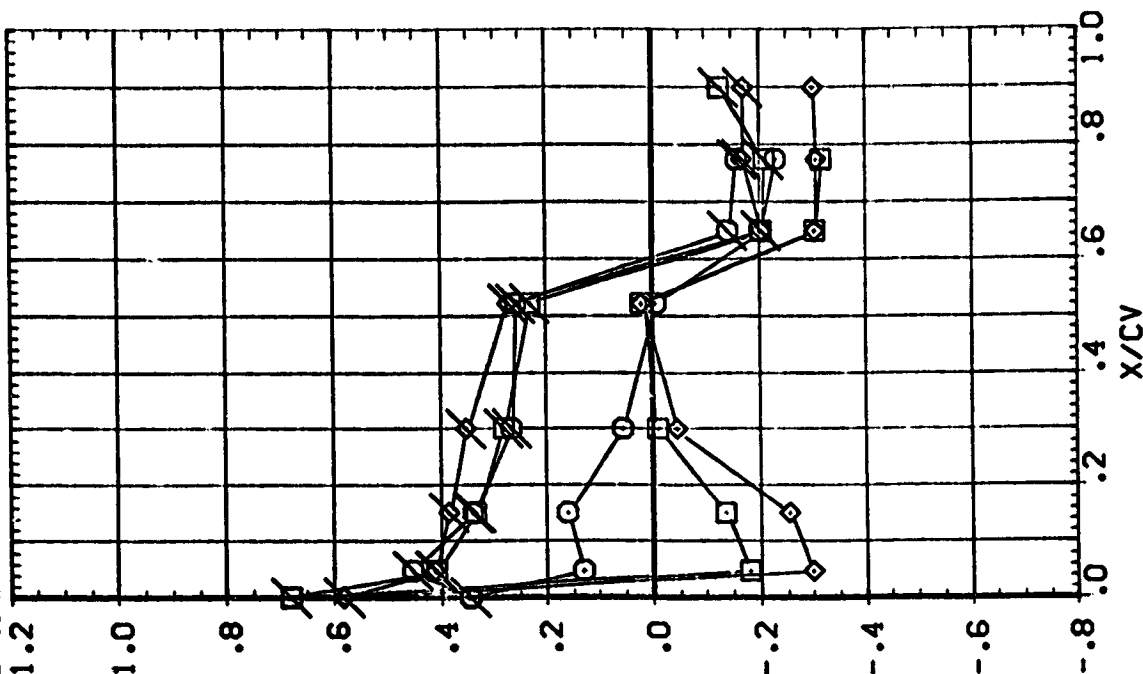
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES
 -4.000 ORBINC
 .000 ELEVON
 .000

ALPHA
 RUDER
 R2FLR

SYMBOL Z/BV BETAT MACH
 .158
 .316
 .600

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (REBOB) OPEN APES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
 (REBOB) FLAGGED APES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

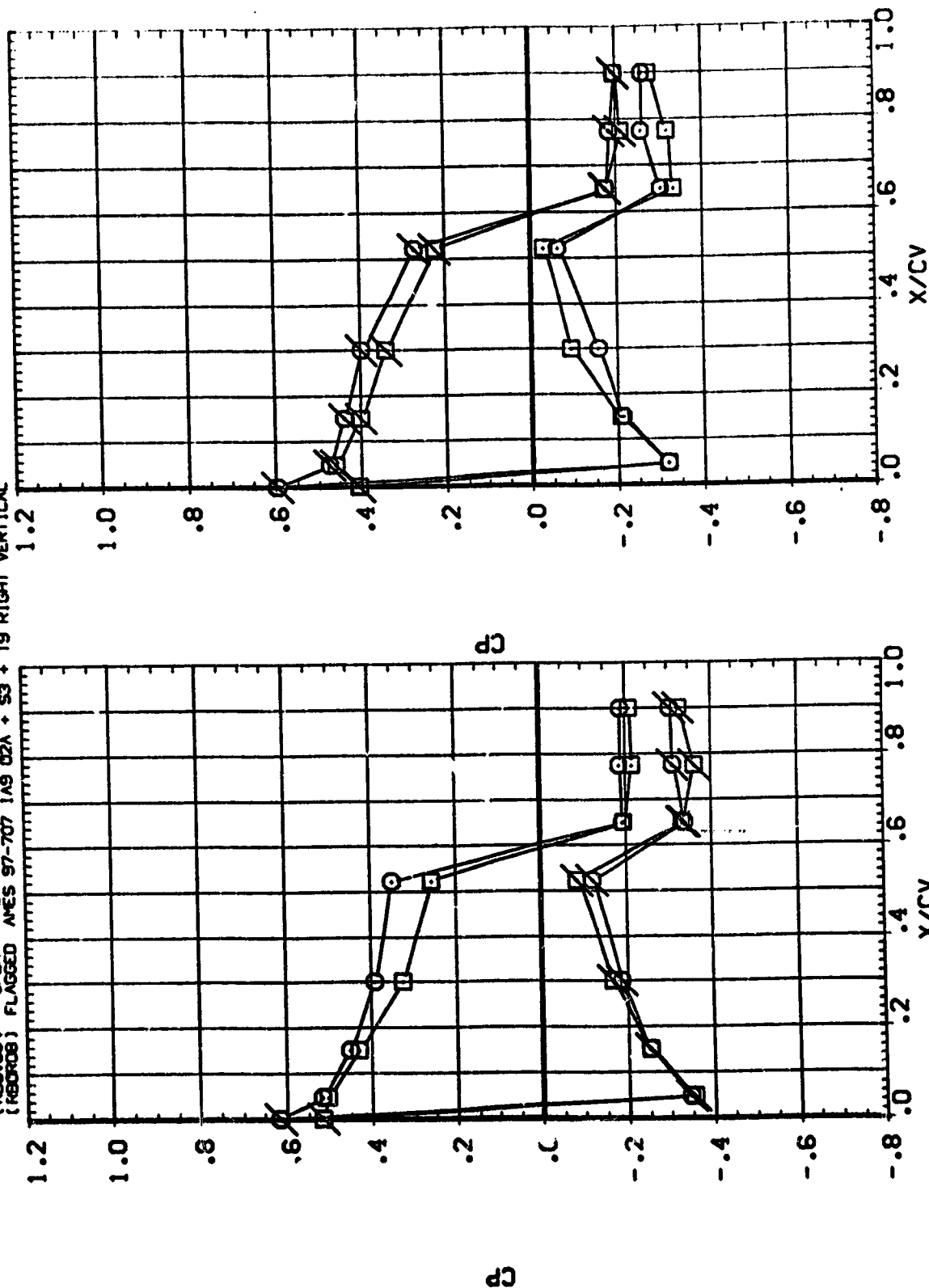
ALPHAT	-4.000	ORBITNC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

SYMBOL Z/BV BETAT MACH

○	.840	-6.150	1.555
□	.925	5.030	

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(REDOB)	OPEN	AVES 97-707	1A9	02A	+ S3	+ T9	LEFT VERTICAL
(REDOB)	FLAGED	AVES 97-707	1A9	02A	+ S3	+ T9	RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

ALPHAT	ORBITC
RJDER	ELEVON
RJCLR	

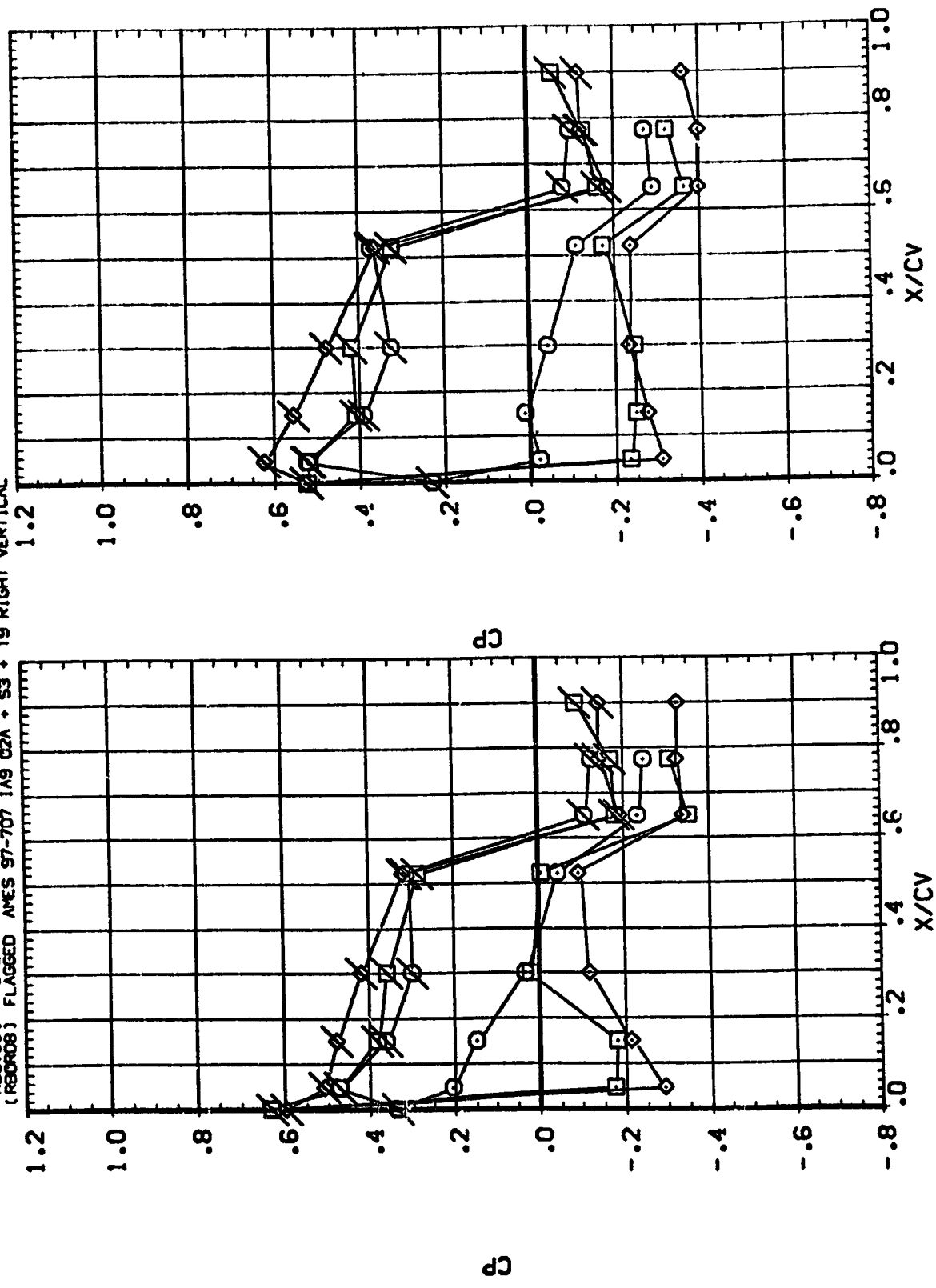
-4.000
 .000
 .000
 .500
 .000

SYMBOL Z/BV BETAT MACH

○	.158	7.050	1.555
□	.316	9.070	
◇	.600		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

REBOR8	OPEN	AMES 97-707 1A9 02A + S3 + 19 LEFT VERTICAL
REBOR8	FLAGGED	AMES 97-707 1A9 02A + S3 + 19 RIGHT VERTICAL



PARAMETRIC VALUES

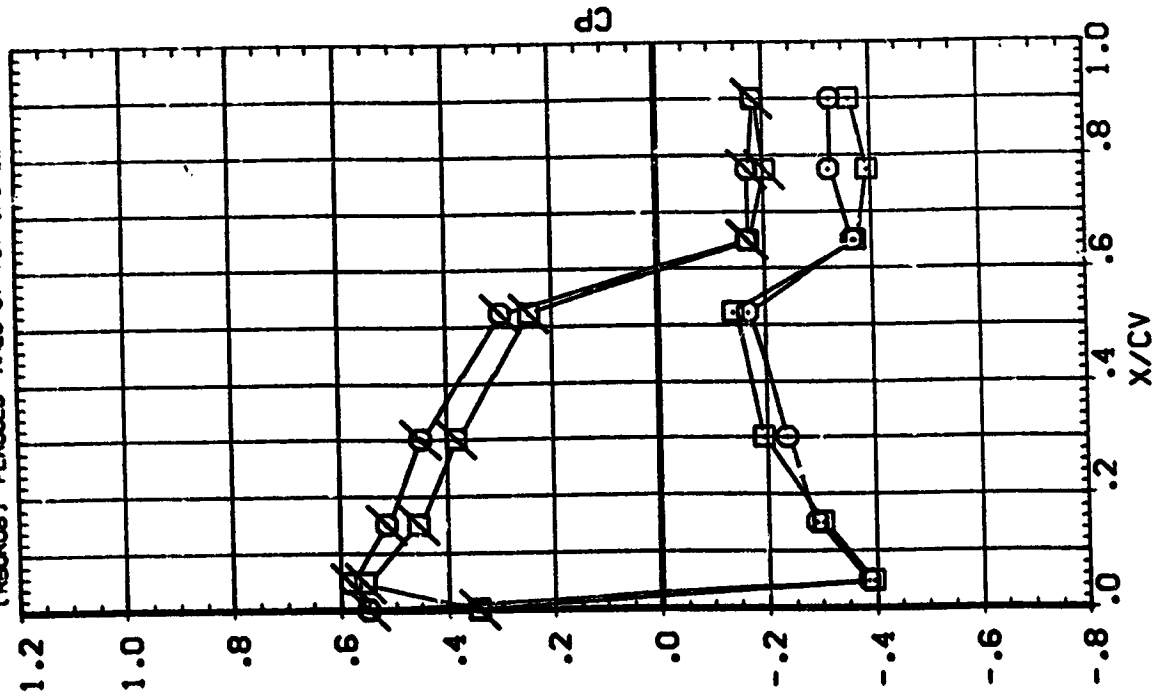
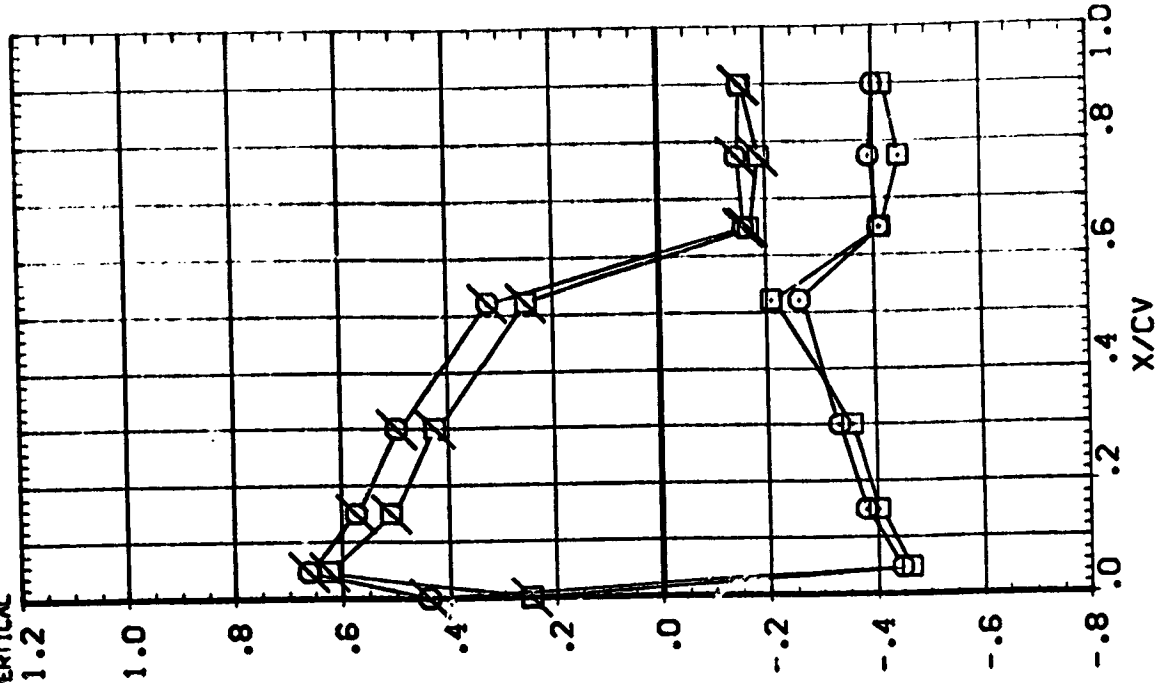
ALPHAT	RUOER	RUOFLR
-4.000	.000	.000
.500	.000	.000

SYMBOL Z/BN BETAT MACH

.840	7.050	1.555
.925	9.070	

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(REBOB)	OPEN	AVES 97-707	1A9 02A + S3 + 19 LEFT VERTICAL
(REBOB)	FLAGGED	AVES 97-707	1A9 02A + S3 + 19 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL-TAIL PRESSURES

PARAMETRIC VALUES

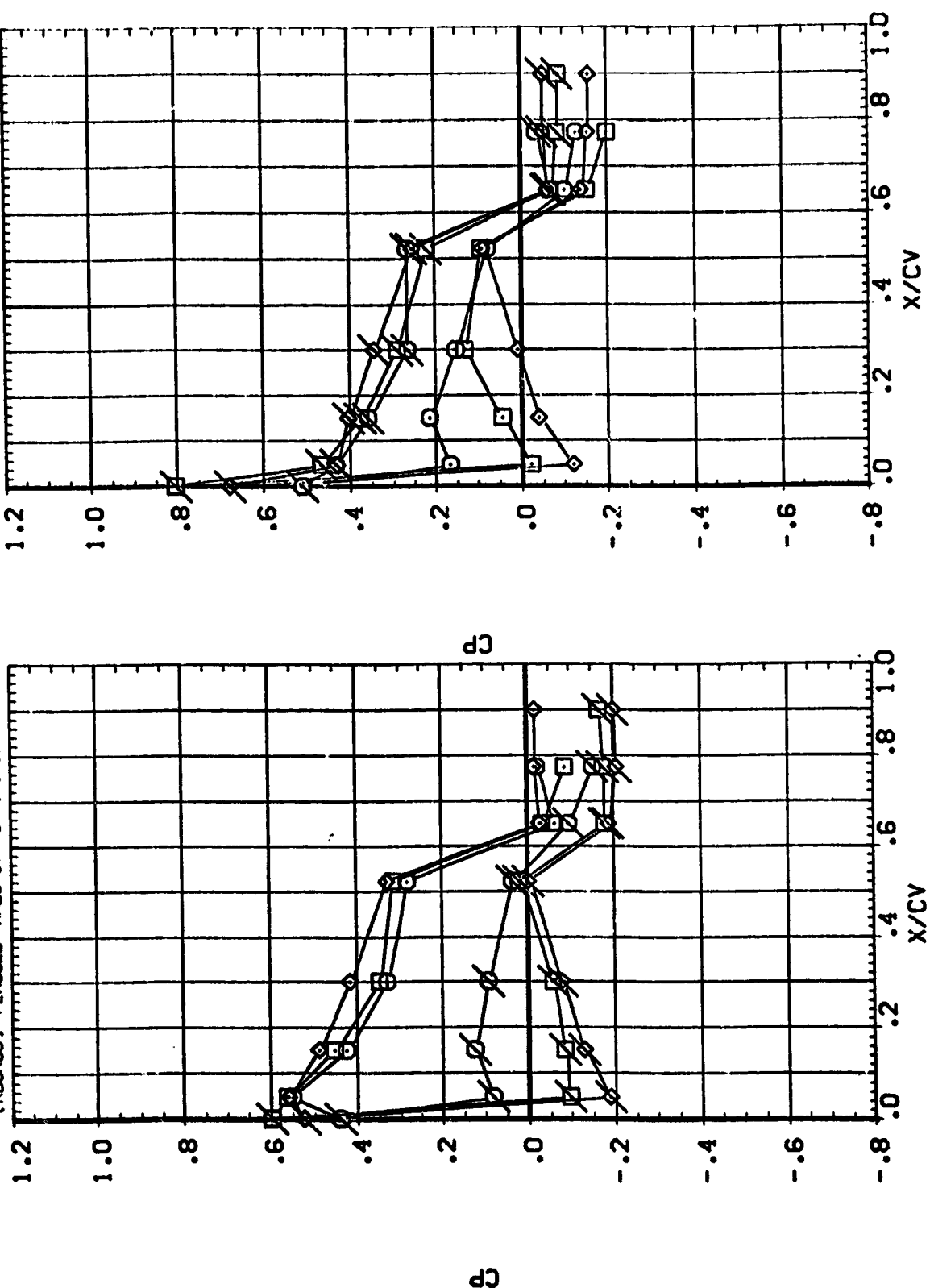
ALPHAT	-4.000	CRBINC	.500
RUDER	.000	ELEVON	.000
RUDFLR	.000		

SYMBOL

Z/BV	.158	BETAT	-5.270	MACH	2.000
	.316		3.920		
	.600				

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(REOV08)	OPEN	AVES 97-707	1A9	02A	+ S3	+ T9	LEFT VERTICAL
(REOR08)	FLAGGED	AVES 97-707	1A9	02A	+ S3	+ T9	RIGHT VERTICAL



SYMBOL \square \square

Z/BV .840
.925

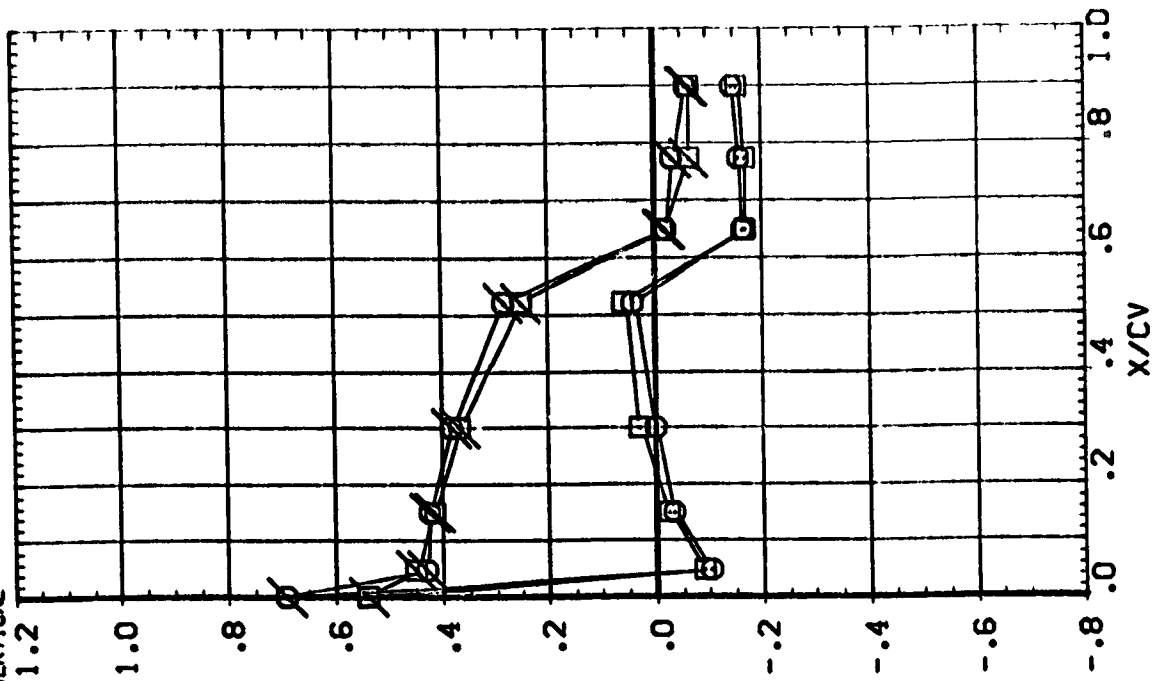
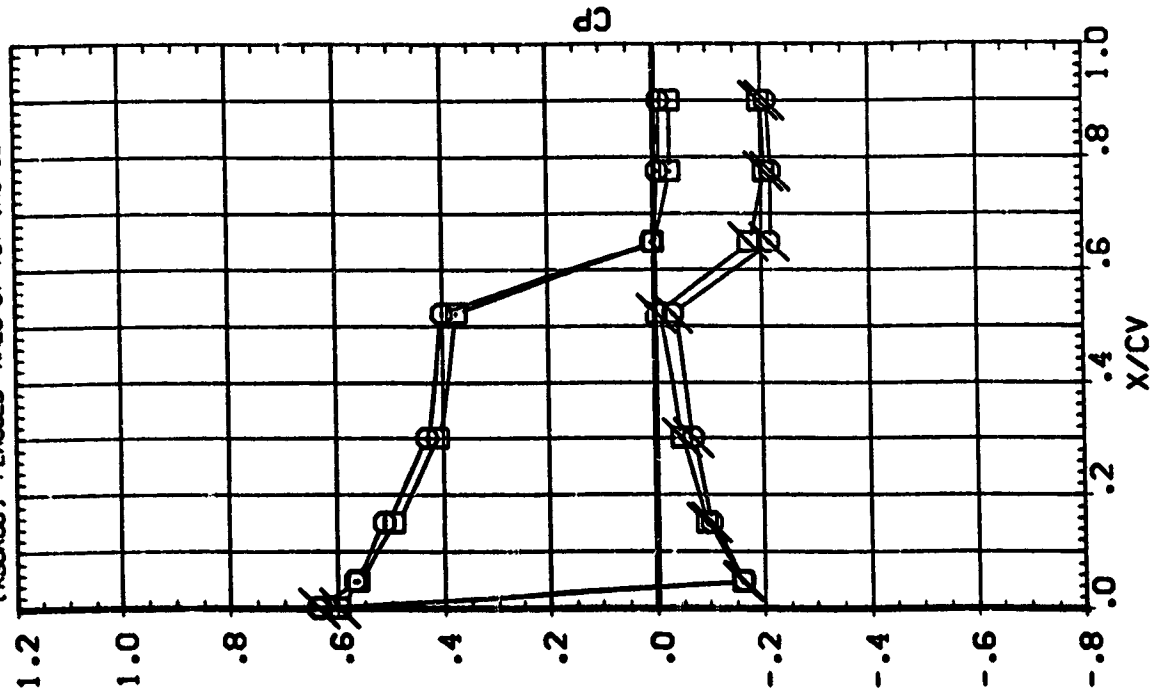
BETAT -6.270
3.920

MACH 2.000

PARAMETRIC VALUES
ALPHAT -4.000
RUDDER .000
RUDFLR .000

ORBNIC .500
ELEVON .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(RECOVER) OPEN AMES 97-707 IAS 02A + S3 + T9 LEFT VERTICAL
(RECOVER) FLAGGED AMES 97-707 IAS 02A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

ALPHAT	-4.000	DRBINC	.500
RJODER	.000	ELEVON	.000
RJFLR	.000		

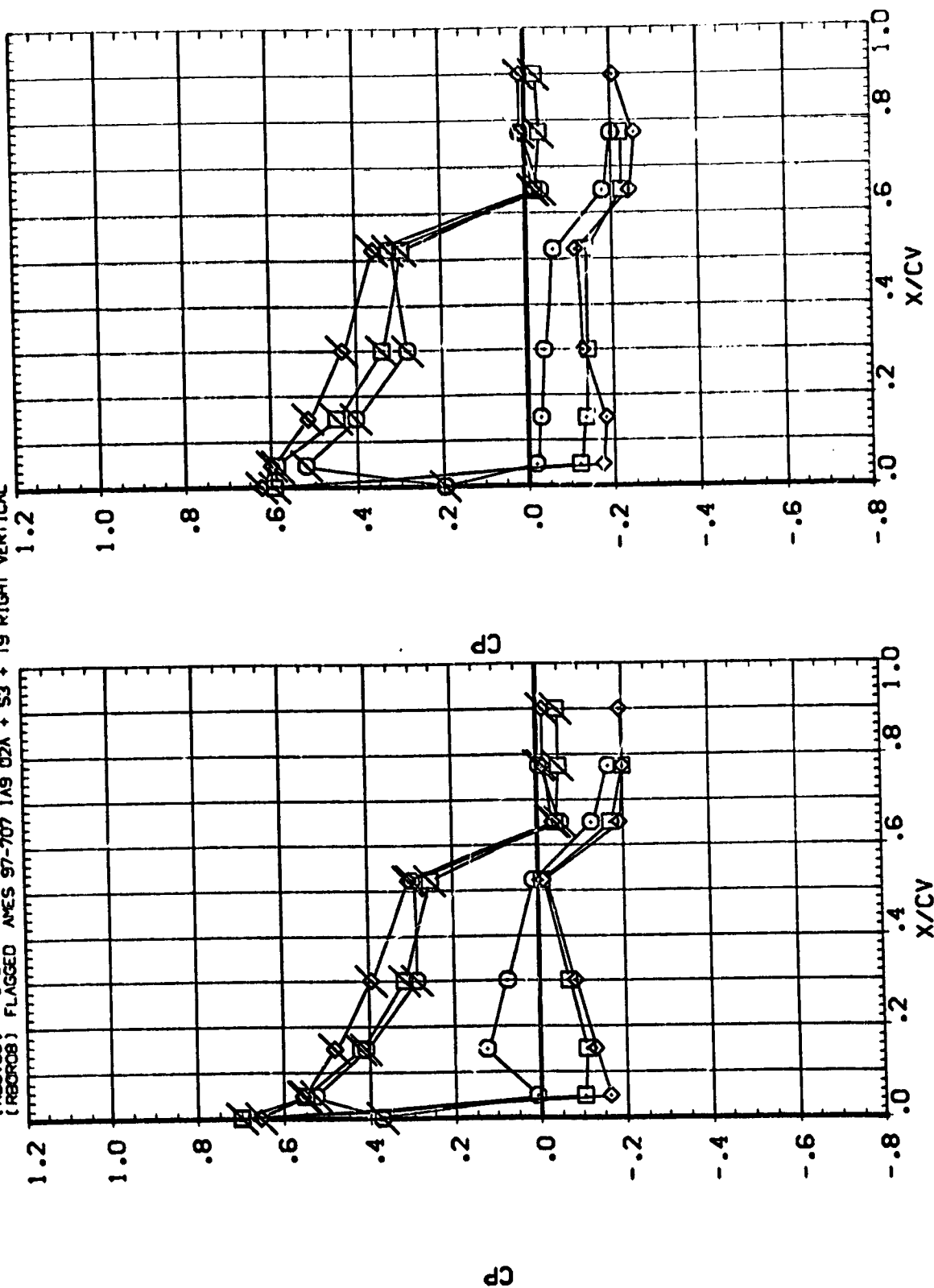
ALPHAT
RJODER
RJFLR

SYMBOL Z/BV BETAT MACH

○	.158	5.960	2.000
□	.316	8.010	
◇	.600		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

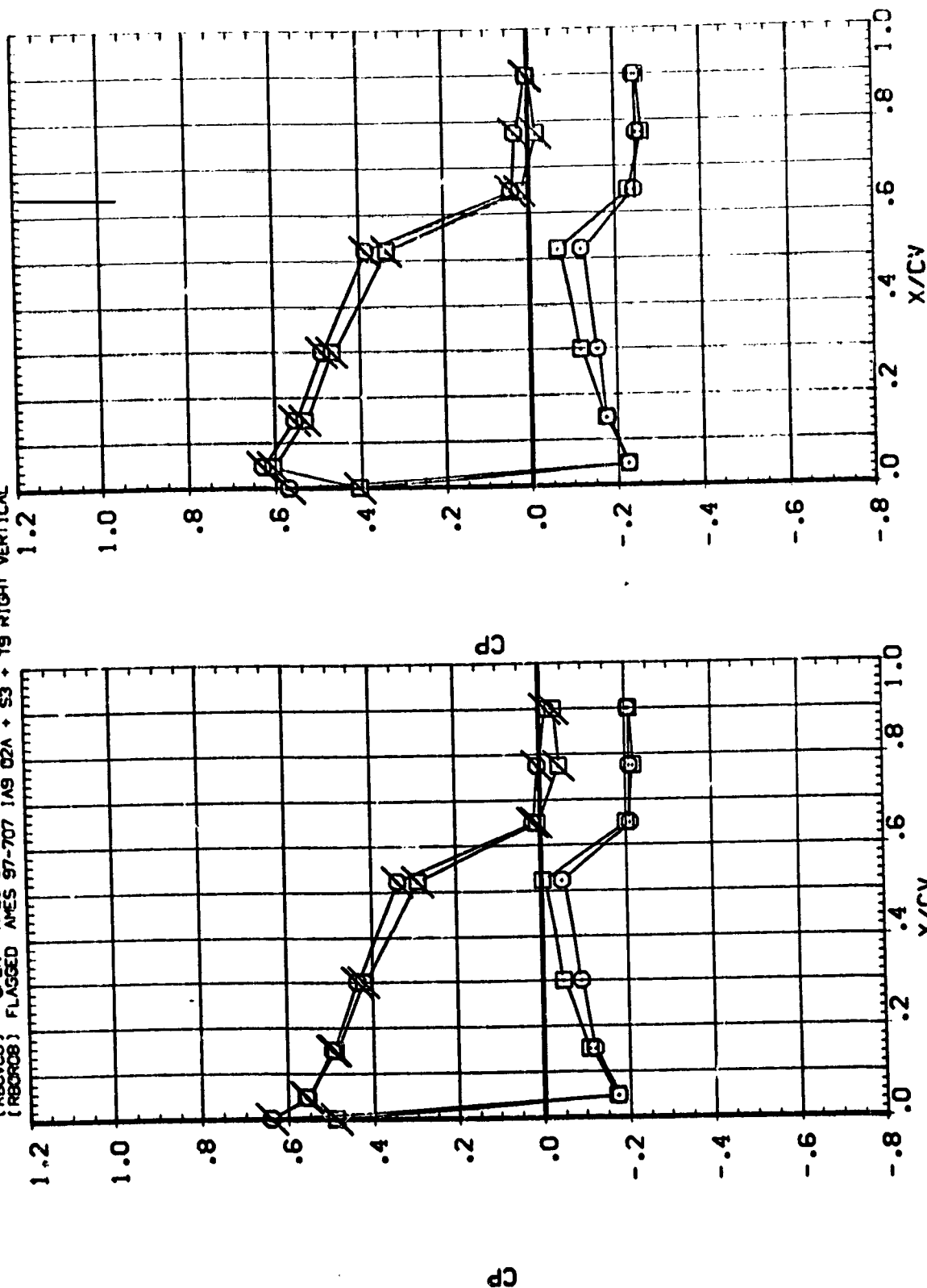
(RBOV03)	OPEN	AMES 97-707 IAS 02A + S3 + T9 LEFT VERTICAL
(RBOV08)	FLAGGED	AMES 97-707 IAS 02A + S3 + T9 RIGHT VERTICAL



PARAMETRIC VALUES
 ALPHAT -1.000 DRBINC .500
 RUDDER .000 ELEVON .000
 RUDFLR .000

SYMBOL Z/BV BETAT MACH
 .840 5.960 2.000
 .925 8.010

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBDOVB) ANES 97-707 IAS 02A + S3 + T9 LEFT VERTICAL
 (RBDOVB) ANES 97-707 IAS 02A + S3 + T9 RIGHT VERTICAL



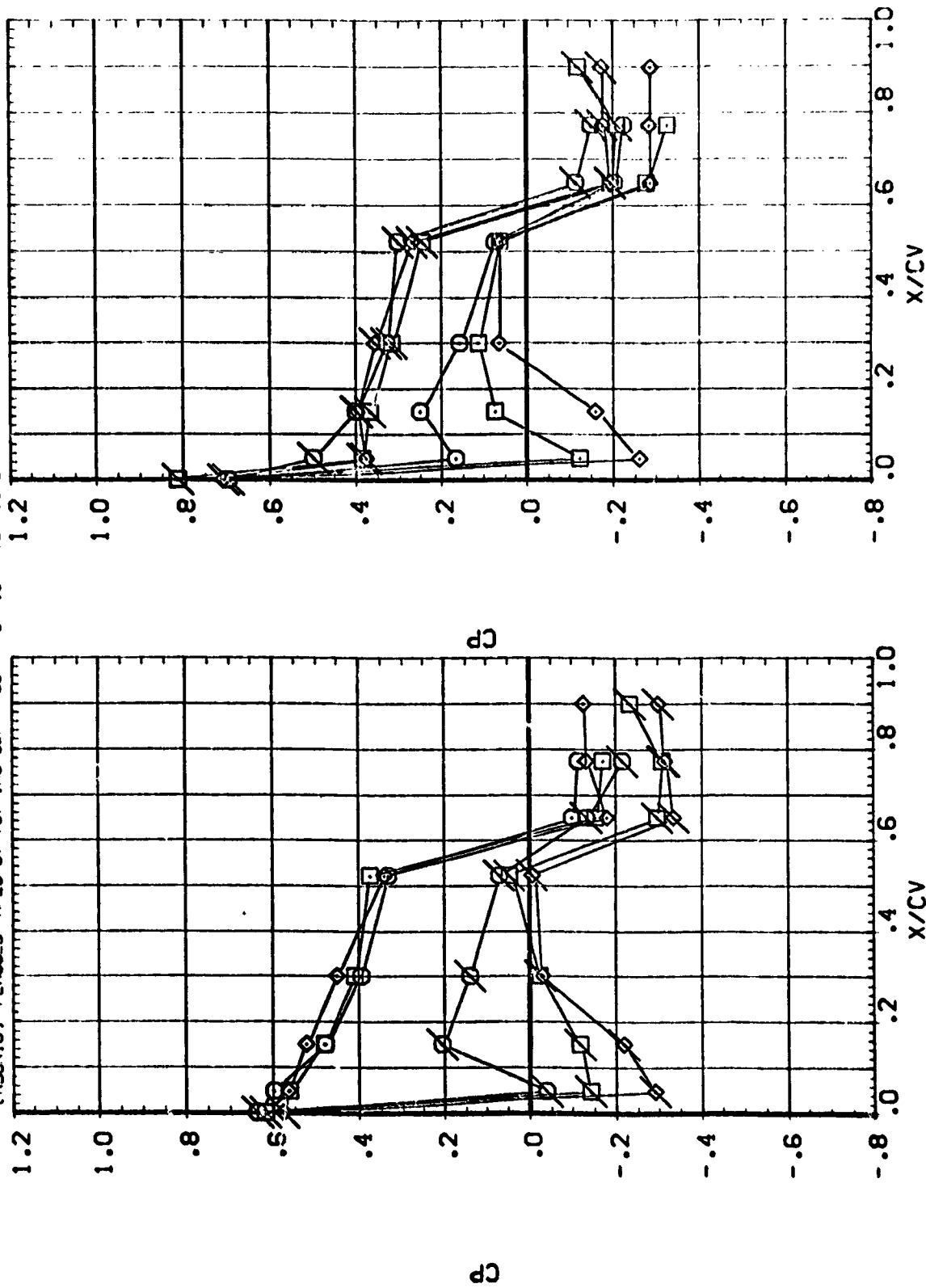
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SYMBOL Z/BV
 ○ .158
 □ .316
 ◇ .600

BETAT MACH
 -6.210 1.555
 3.650

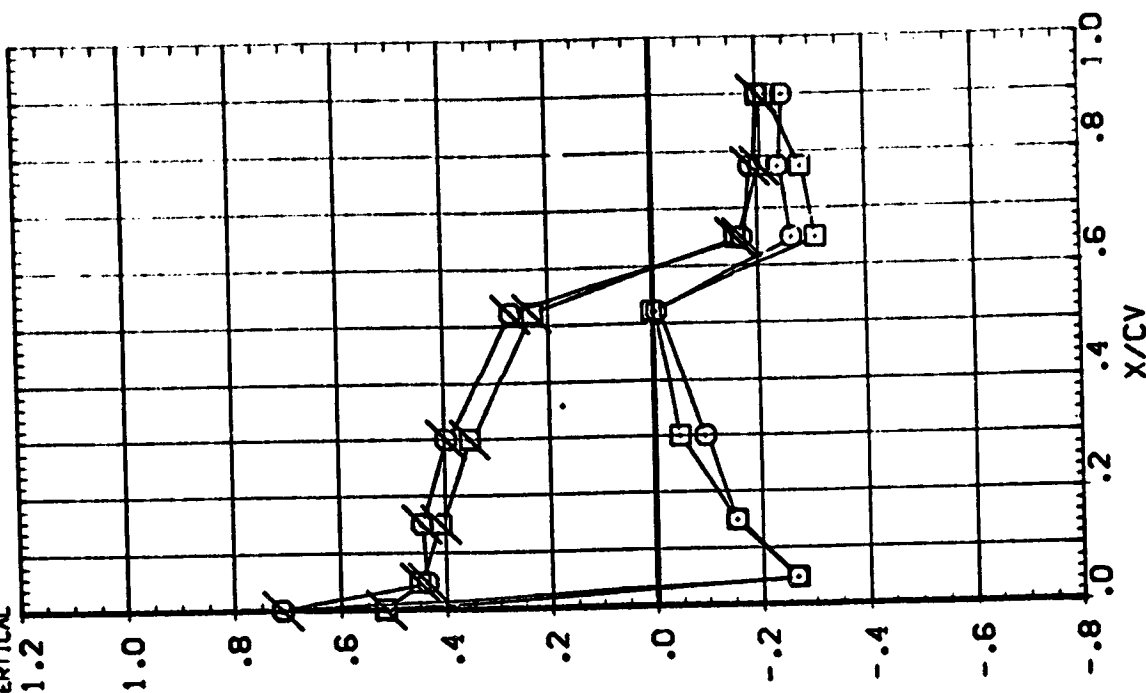
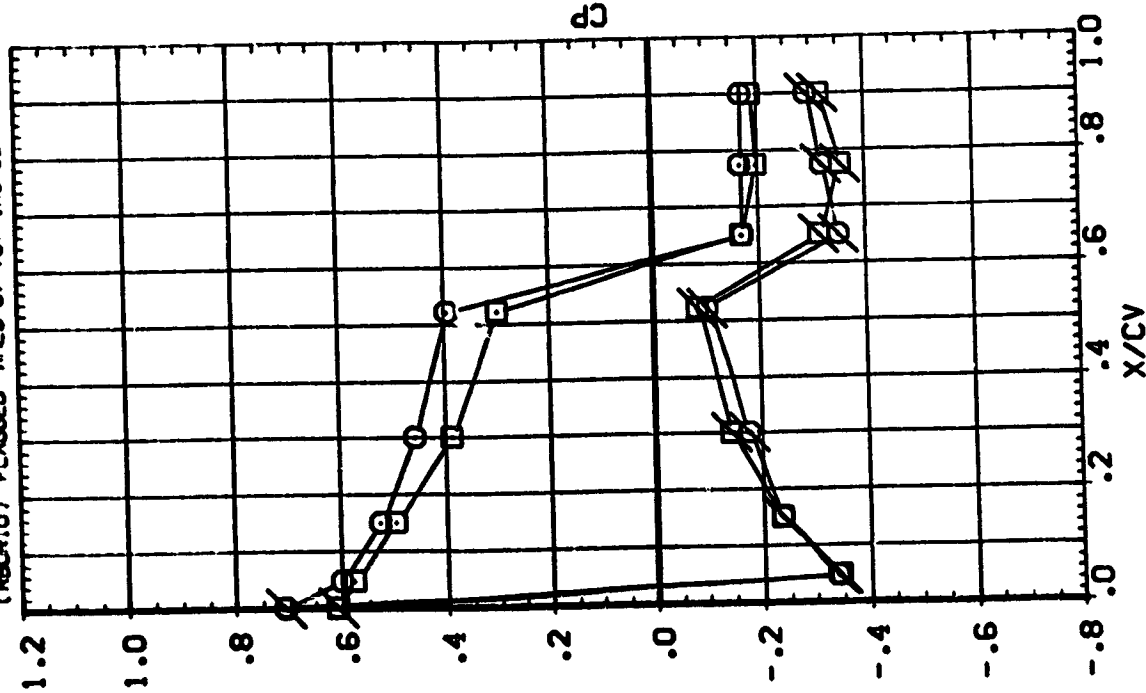
PARAMETRIC VALUES
 ALPHAT -8.000
 RUDDER .000
 RUOFLR .000
 .500
 .000
 .000
 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBOV10) OPEN AXES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
 (RBOV10) FLAGGED AXES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



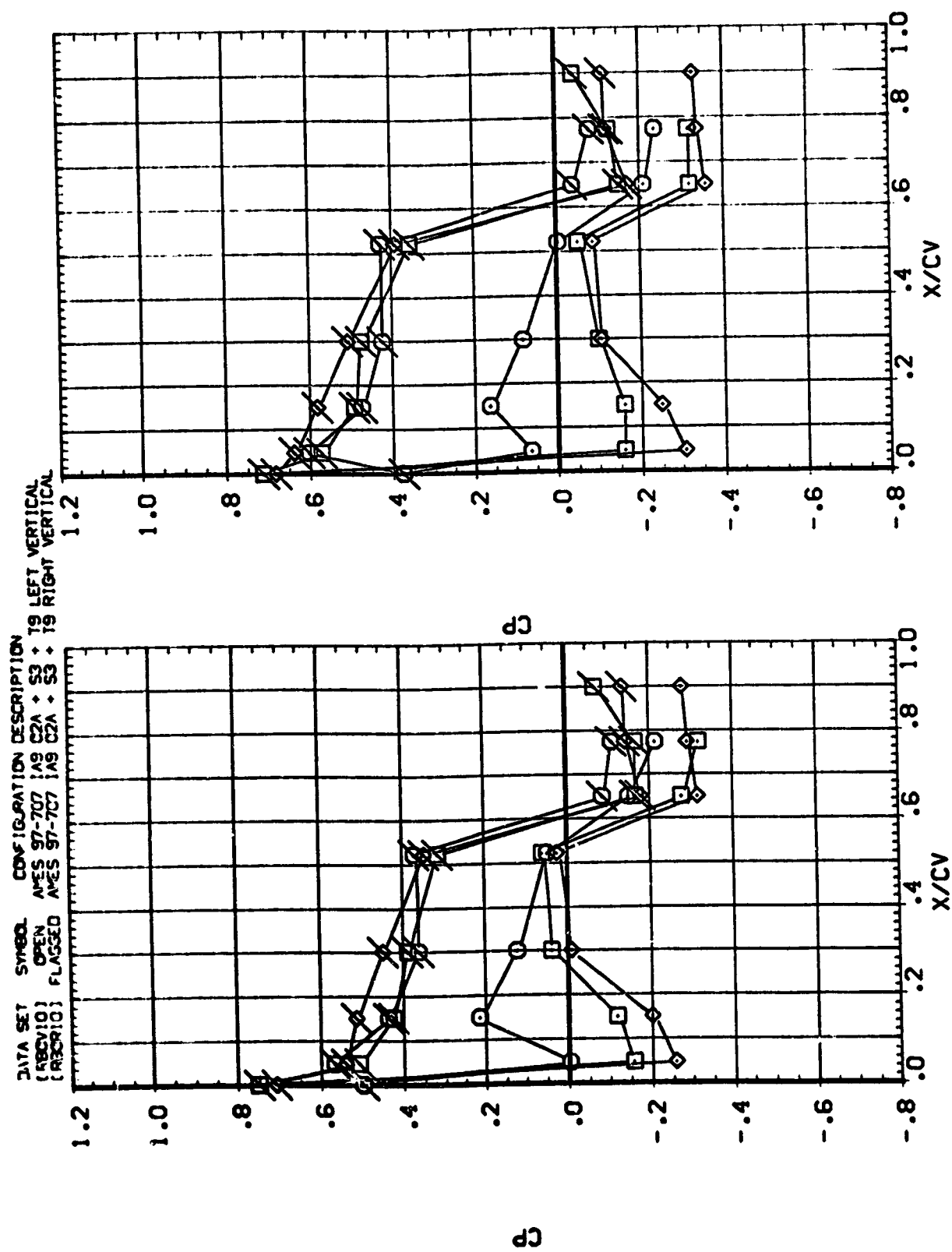
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RECON) OPEN AMES 97-707 IAG O2A + S3 + T9 LEFT VERTICAL
 (RECON) FLAGGED AMES 97-707 IAG O2A + S3 + T9 RIGHT VERTICAL



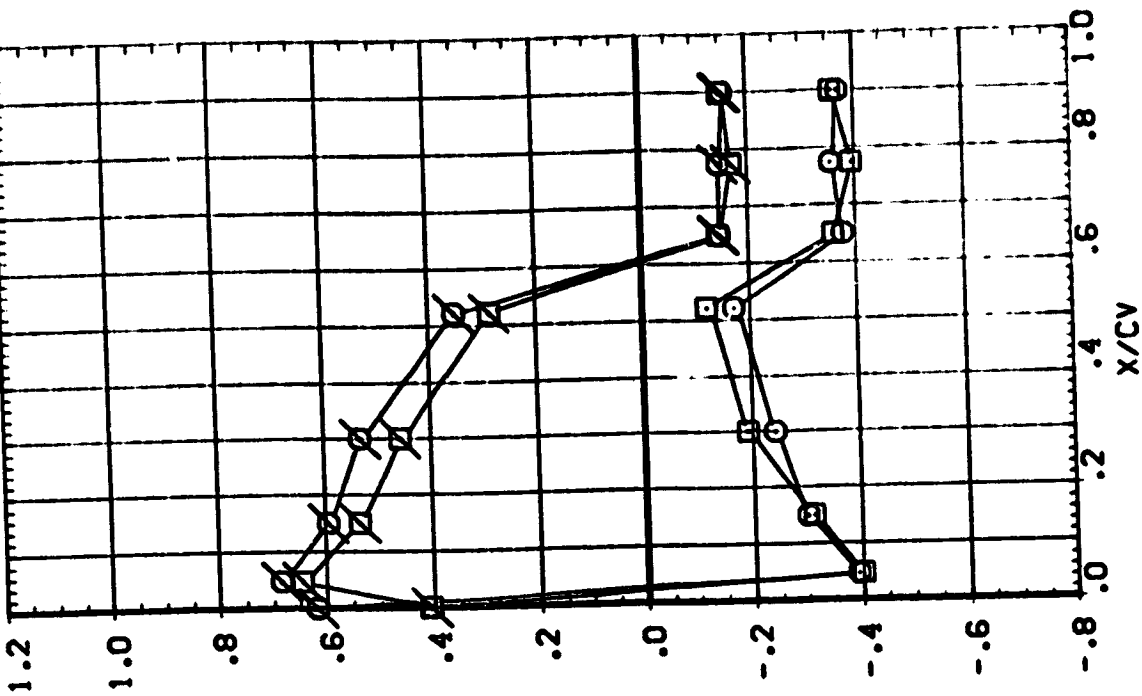
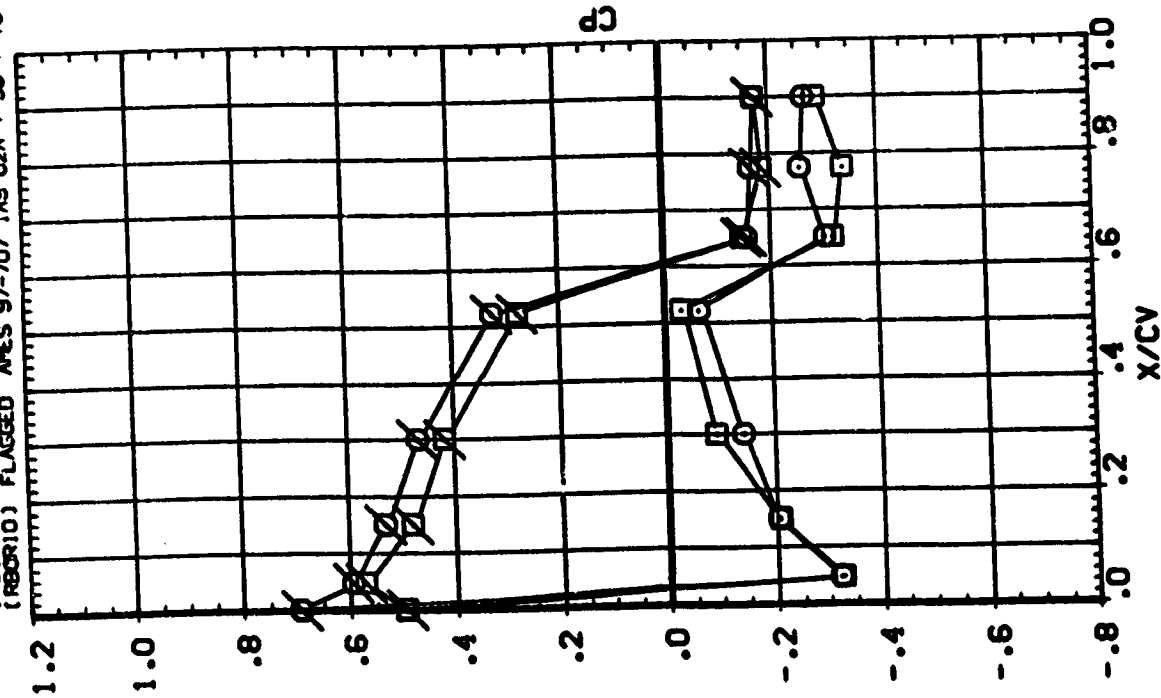
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL Z/BV BETAT MACH DATA SET SYMBOL CONFIGURATION DESCRIPTION PARAMETRIC VALUES
 ○ .158 5.710 1.555 AMES 97-707 OPEN AMES 97-707 IAS C2A + S3 + 19 LEFT VERTICAL -8.000 ORIGIN .500
 □ .316 7.770 AMES 97-707 FLAGGED AMES 97-707 IAS C2A + S3 + 19 RIGHT VERTICAL .000 ELEVON .000
 ◇ .600



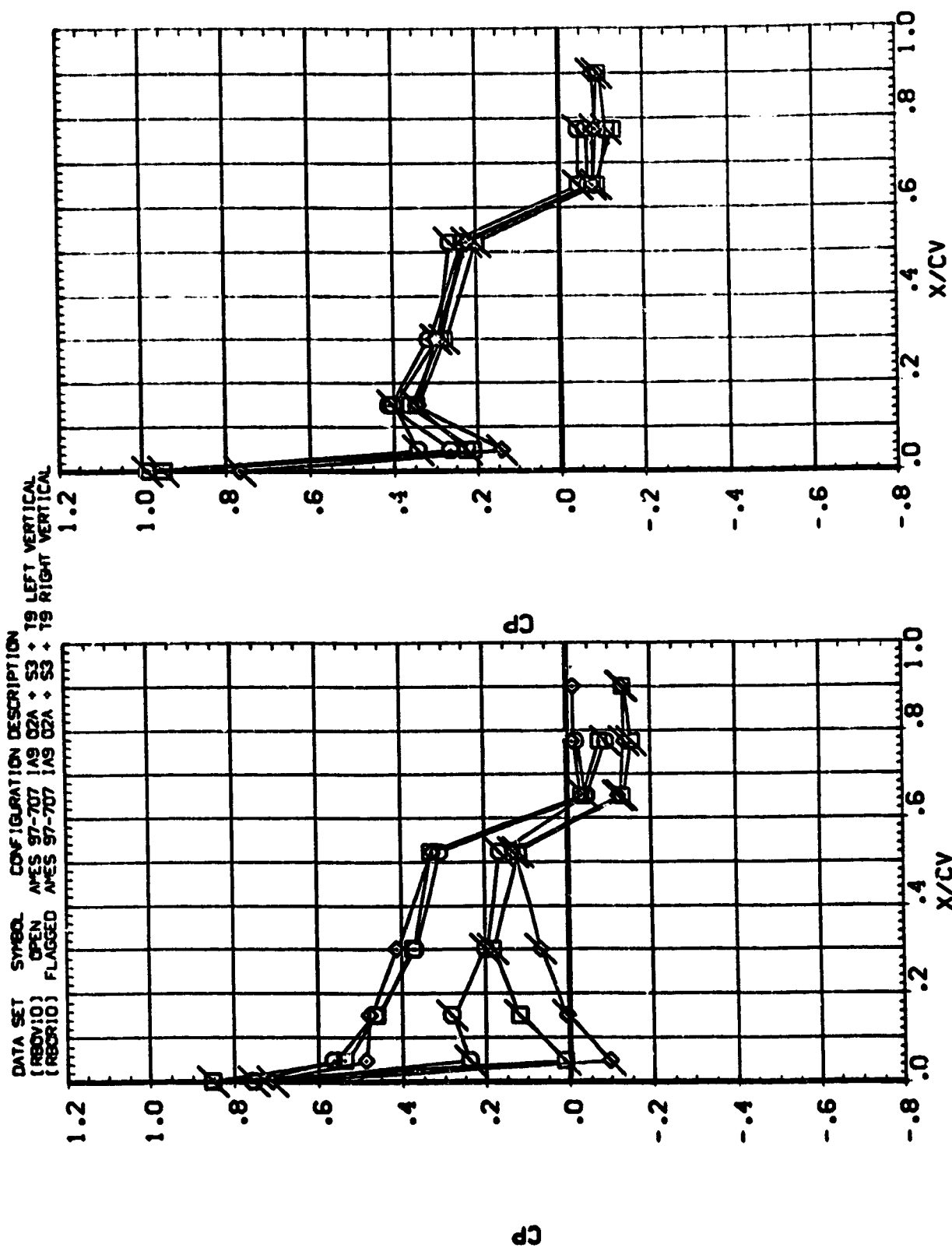
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (REBORIO) OPEN AK.S 97-707 IAS 02A + S3 + T9 LEFT VERTICAL
 (REBORIO) FLAGGED AK.S 97-707 IAS 02A + S3 + T9 RIGHT VERTICAL



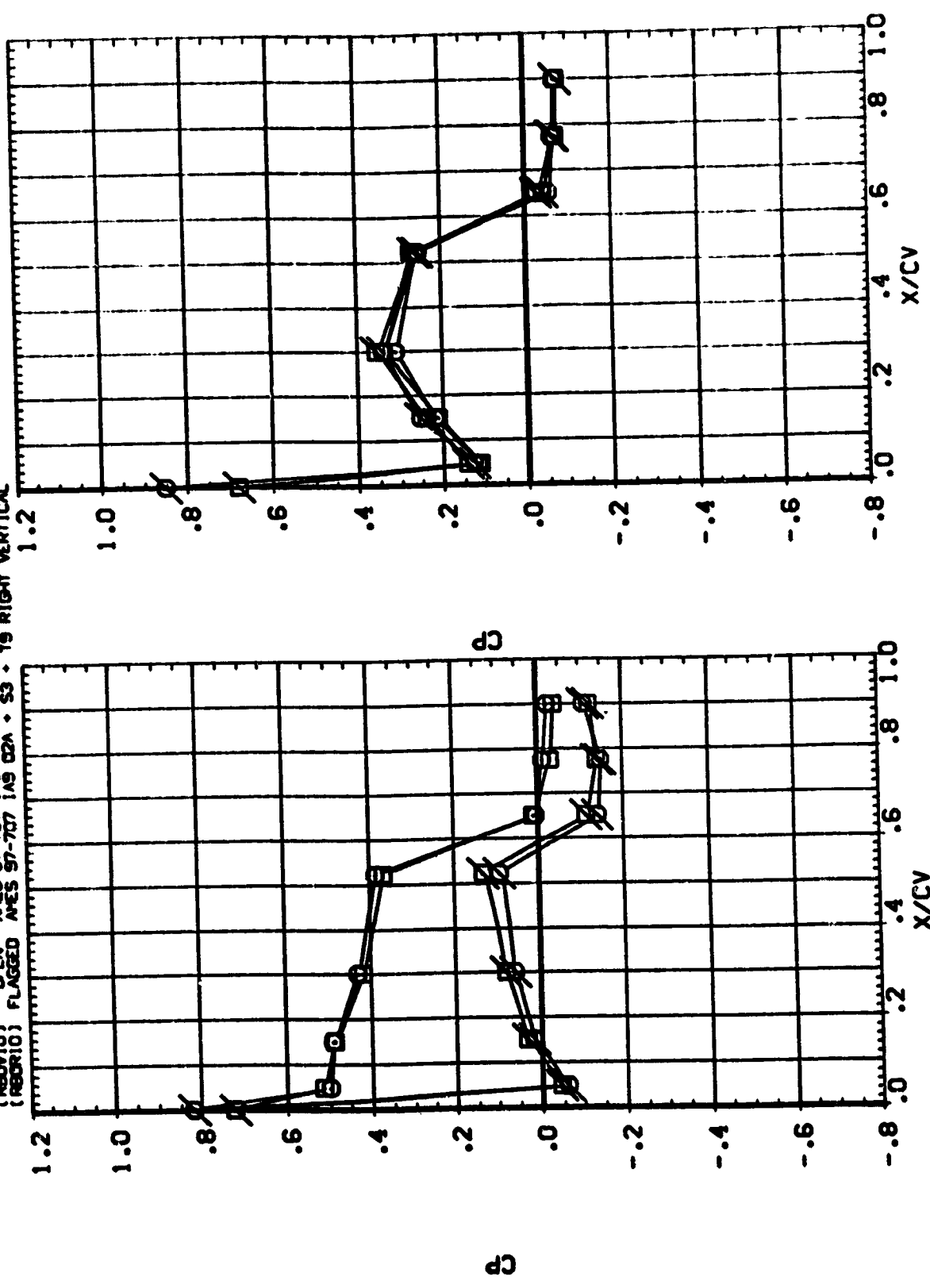
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL Z/BV .158 .316 .600
 BETAY -4.280 -.170
 MACH 2.000
 ALPHAT R/OOER R/OOER
 -8.000 .000 .000
 ORBINC ELEVON .500 .000



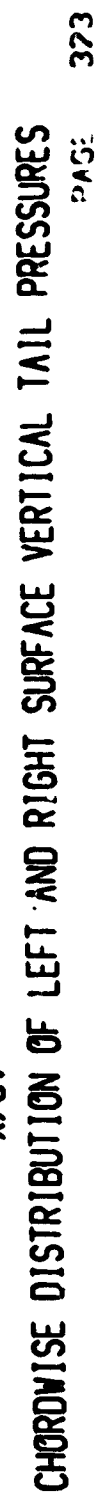
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (REBVID) OPEN APES 97-707 IAS 02A : S3 : TS LEFT VERTICAL
 (REBVID) FLAGGED APES 97-707 IAS 02A : S3 : TS RIGHT VERTICAL

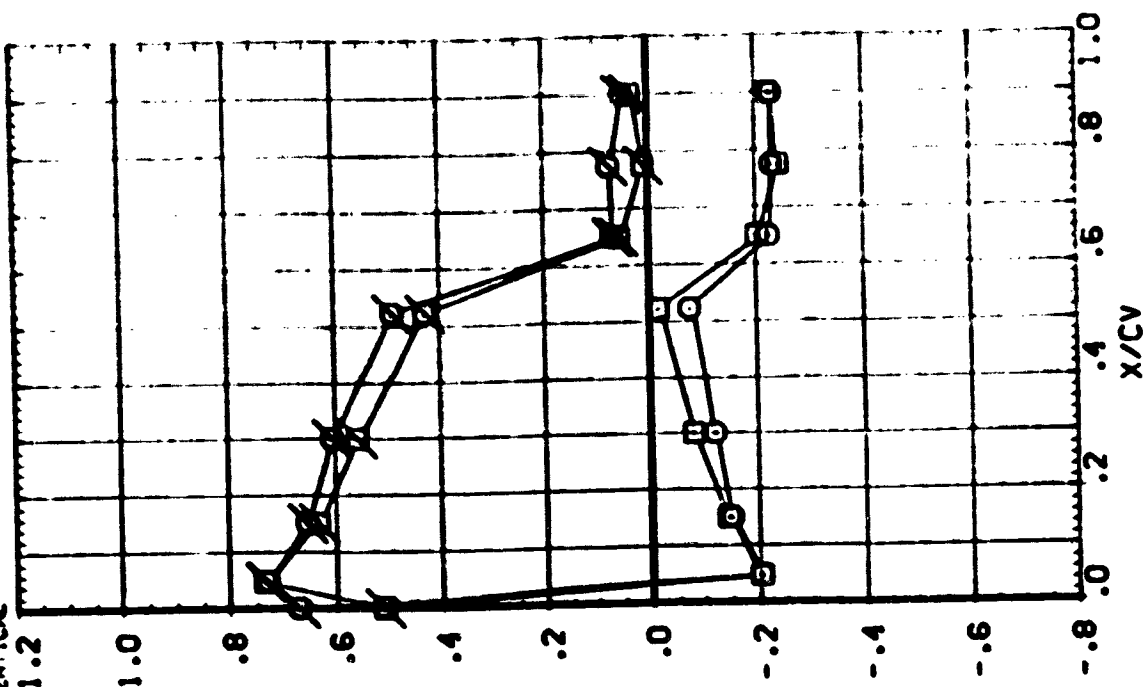
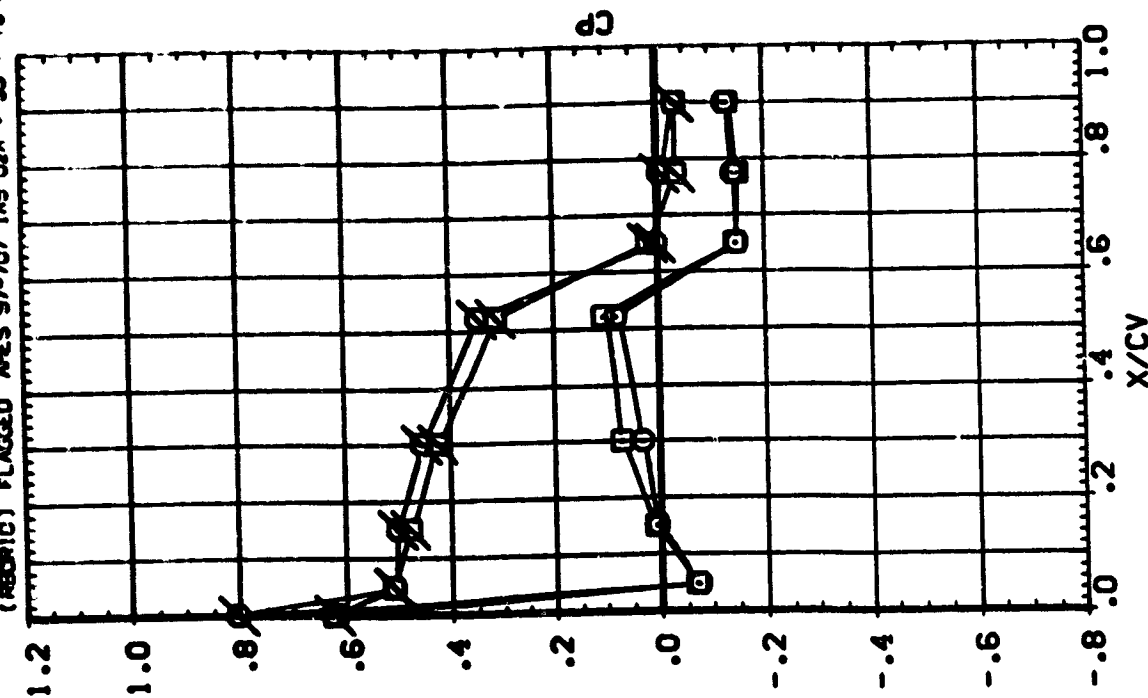


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

ALPHAT	SPRING
-8.000	ELEVEN
.000	
.000	
.000	



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (REOVIO) OPEN AVES 97-707 IAS 02A : S3 : 19 LEFT VERTICAL
 (REOVIO) FLAGGED AVES 97-707 IAS 02A : S3 : 19 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

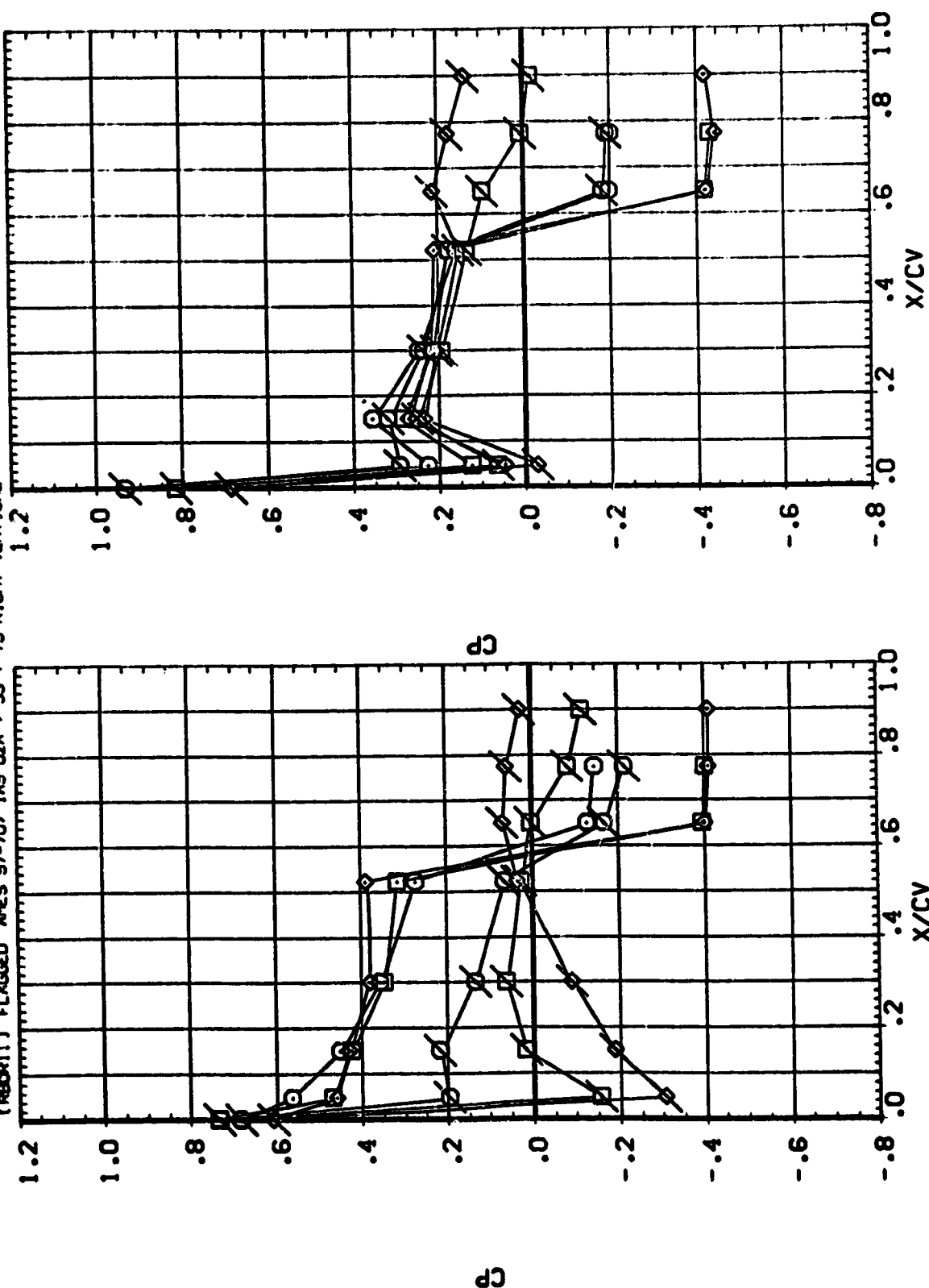
ALPHA	-8.000	DEGREE	.500
RUDER	-15.000	ELEVATION	.000
RUDFLR	.000		

SYMBOL Z/BV BETAT WACH

○	.158	-4.310	1.555
□	.316	-.180	
◇	.603		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(ABOV11)	OPEN	AVES 97-707 IAS C2A + S3 + T9 LEFT VERTICAL
(RBD11)	FLAGGED	AVES 97-707 IAS C2A + S3 + T9 RIGHT VERTICAL

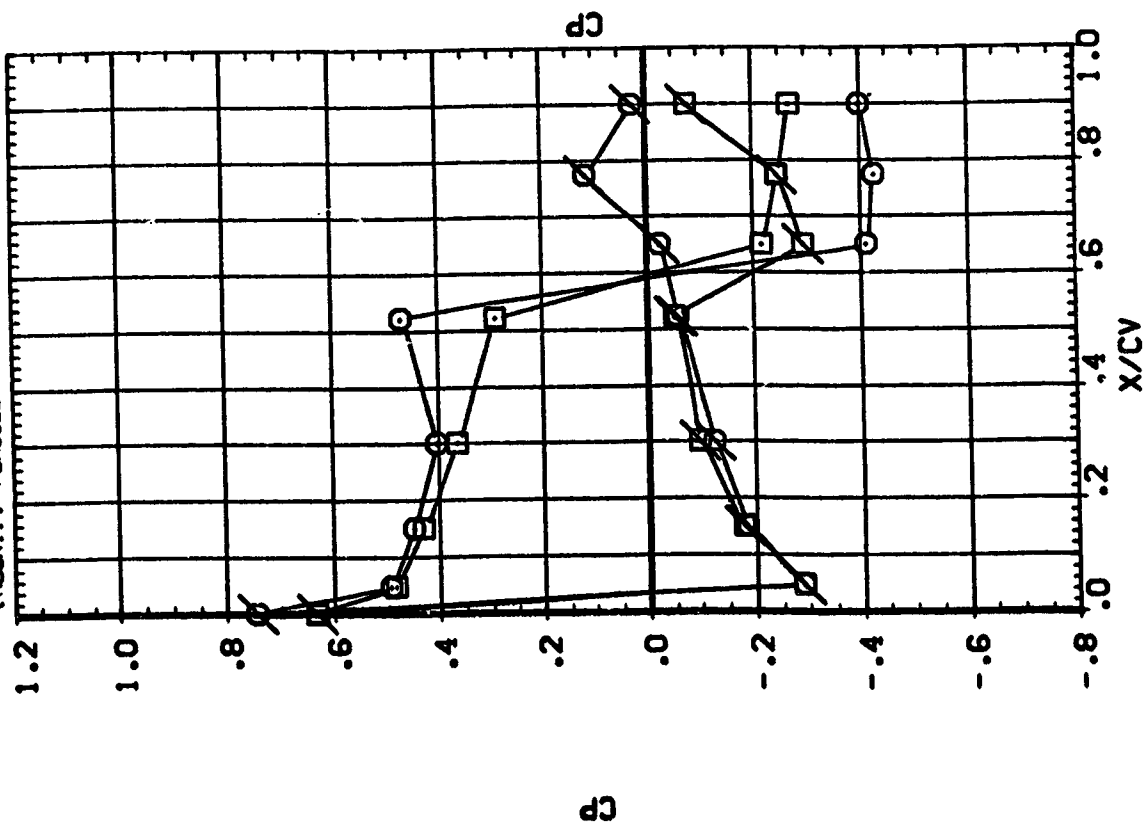
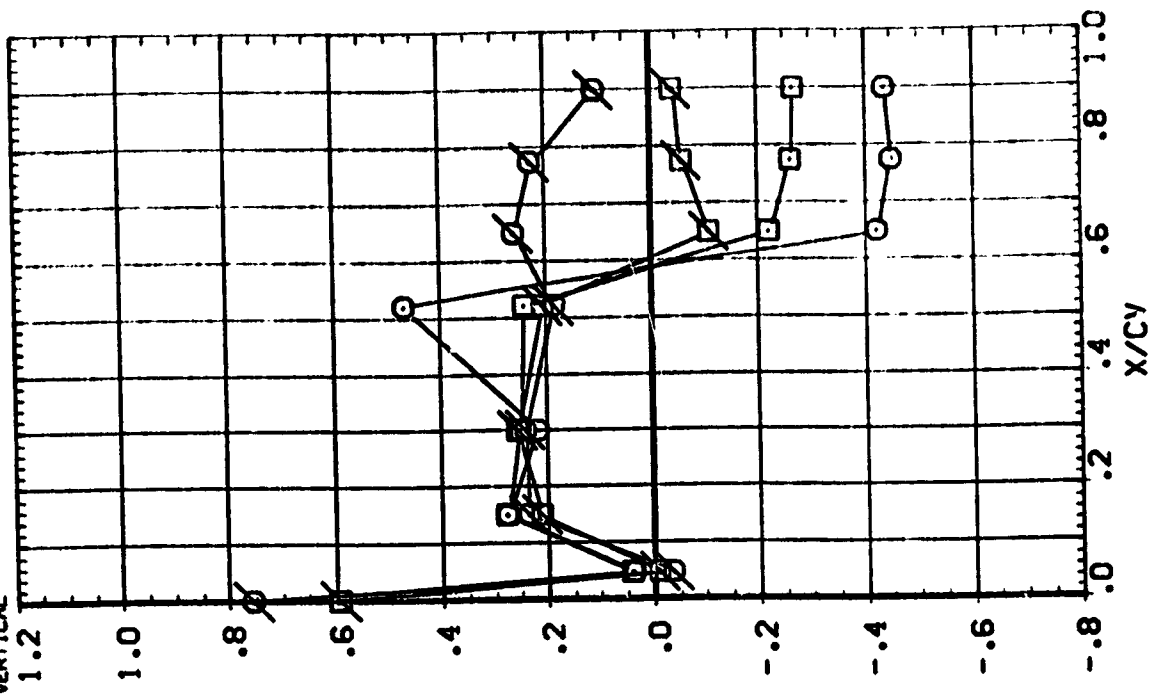


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES
 ALPHAT -8.000 ORBINC .500
 RUDDER -15.000 ELEVON .000
 RUOFLR .000

SYMBOL Z/BV BETAT MACH
 .040 -4.310 1.555
 .925 -.180

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBDV11) OPEN AVES 97-707 IAS 02A + S3 + T9 LEFT VERTICAL
 (RBDV11) FLAGGED AVES 97-707 IAS 02A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

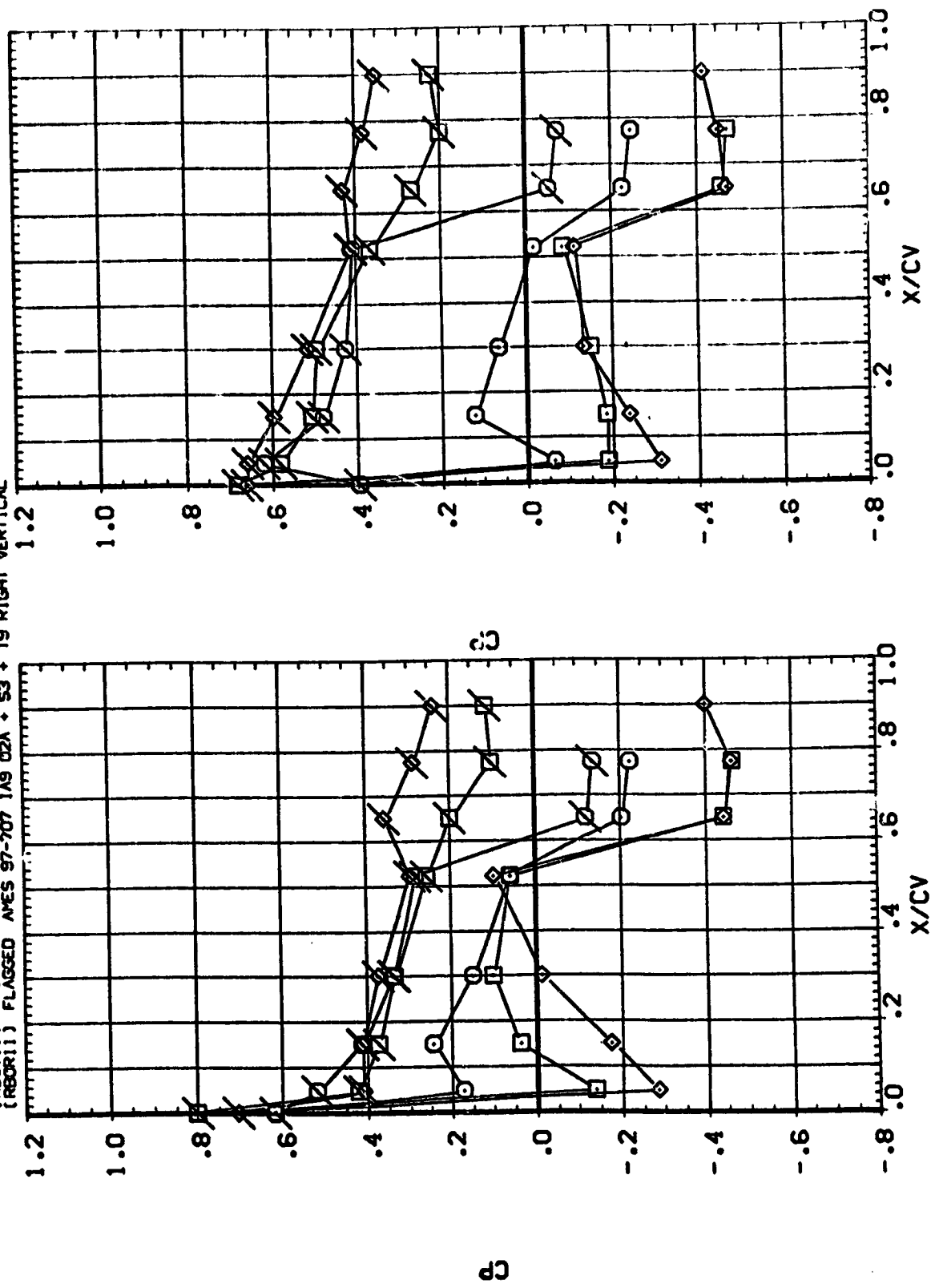
ALPHAT	-8.000	(SR)INC	.500
RCDER	-15.000	ELEVON	.000
RCDLR	.000		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

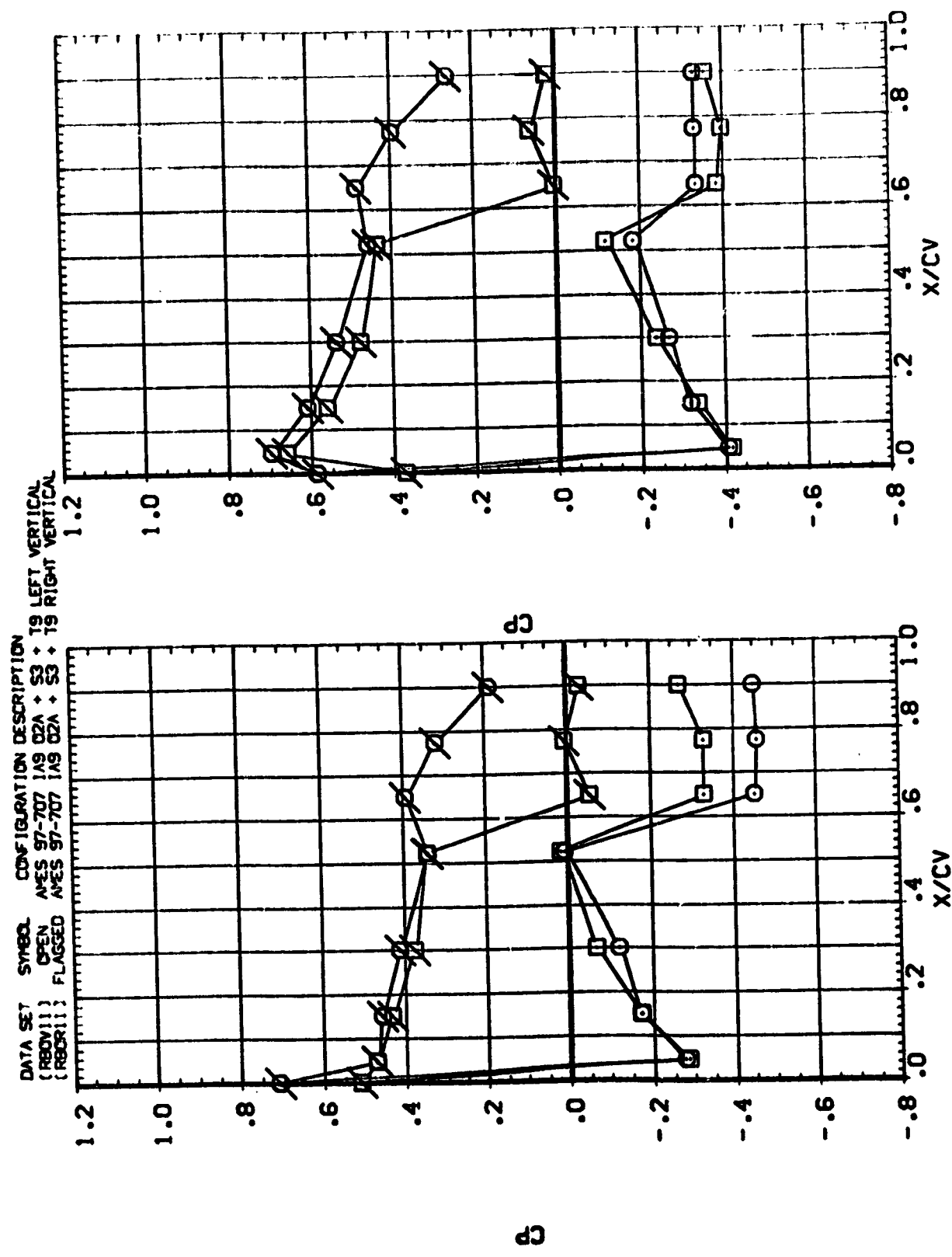
(RBOV!!!)	OPEN	AVES 97-707 1A9 02A + S3 + 19 LEFT VERTICAL
(RBOV!!!)	FLAGGED	AVES 97-707 1A9 02A + S3 + 19 RIGHT VERTICAL

SYMBOL Z/BV BETAT MACH

○	.158	3.940	1.555
□	.316	8.060	
◇	.600		



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

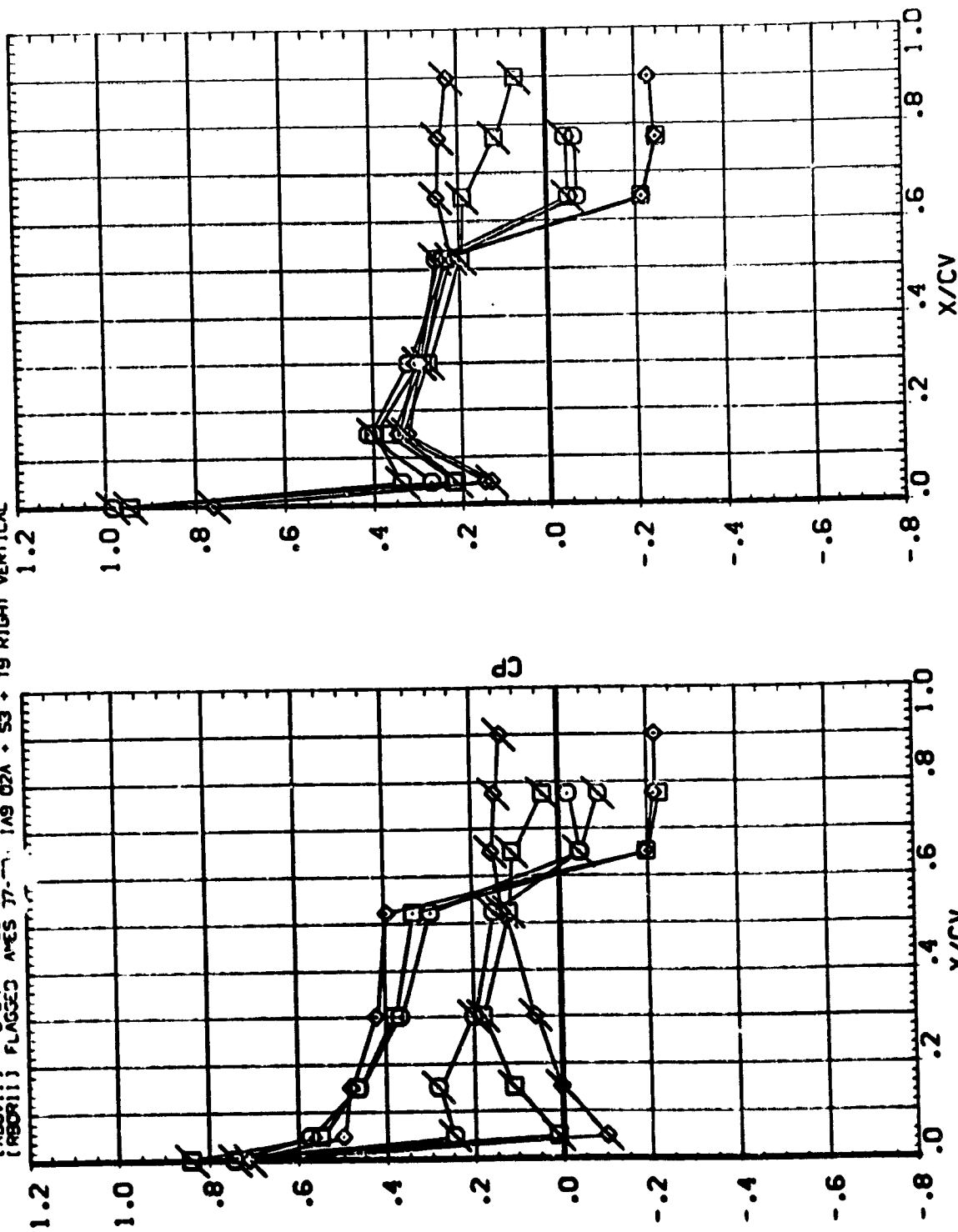
ALPHAT	-8.000	ORBITC	.500
RUDDER	-15.000	ELEVON	.000
RUDCLR	.000		

SYMBOL Z/BV BETAT MACH

○	.158	-4.290	2.000
□	.316	-.180	
◇	.600		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RBCV111)	OPEN	AWES 97-20	1A9 02A + S3 + 19 LEFT VERTICAL
(RBCV111)	FLAGGED	AWES 97-20	1A9 02A + S3 + 19 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

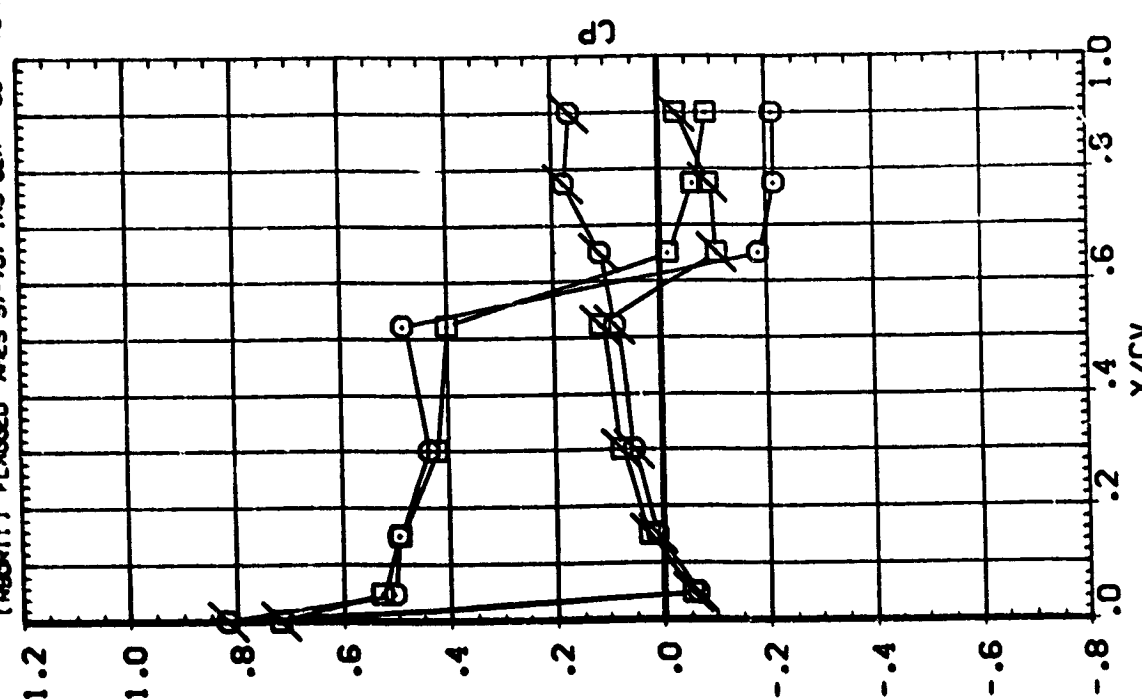
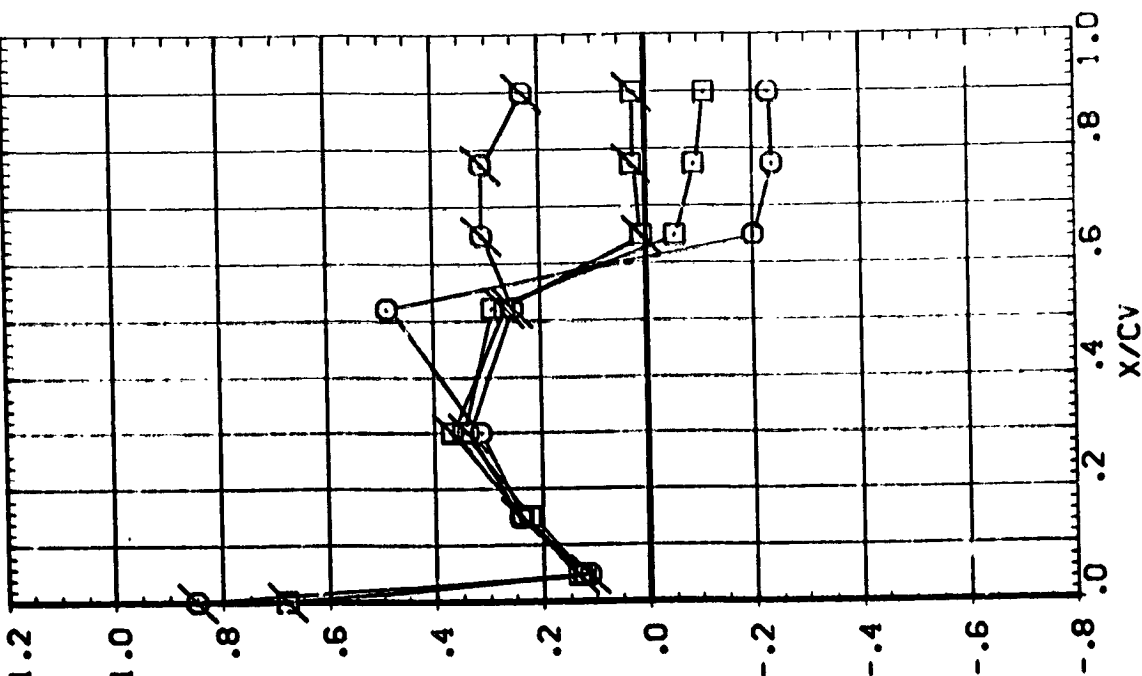
ALPHANUM
ROSTER
R.O.F. R

DATA SET SYMBOL
(REDOVII) OPEN
(REDOIII) FLAGGED

NUM
-4.250 2.000
-180

NUM
-15.000
ELEVEN
-15.000
ELEVEN
-15.000
ELEVEN

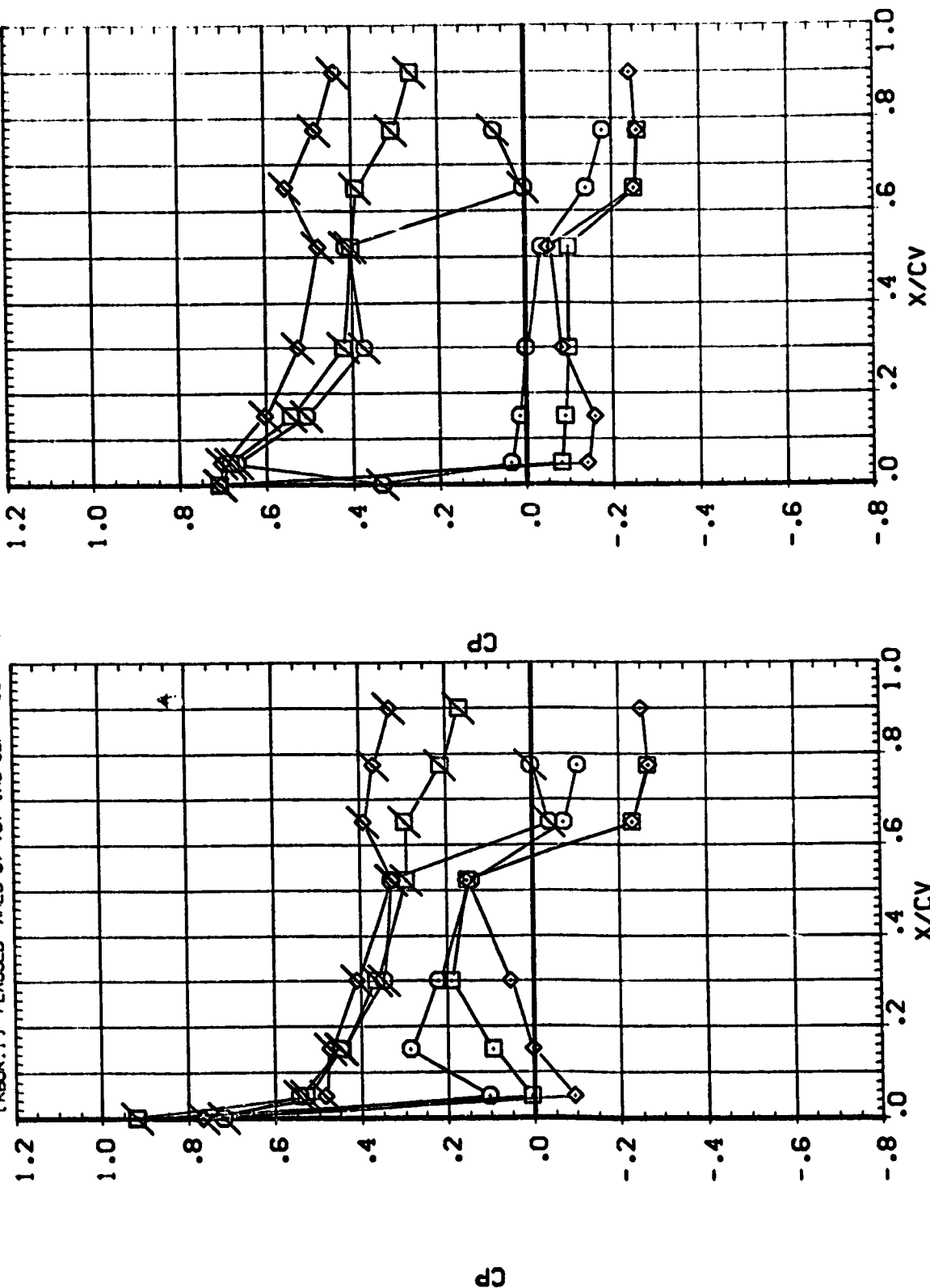
CONFIGURATION DESCRIPTION
AMES 57-707 1A9 02A + S3 + 19 LEFT VERTICAL
AMES 57-707 1A9 02A + S3 + 19 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

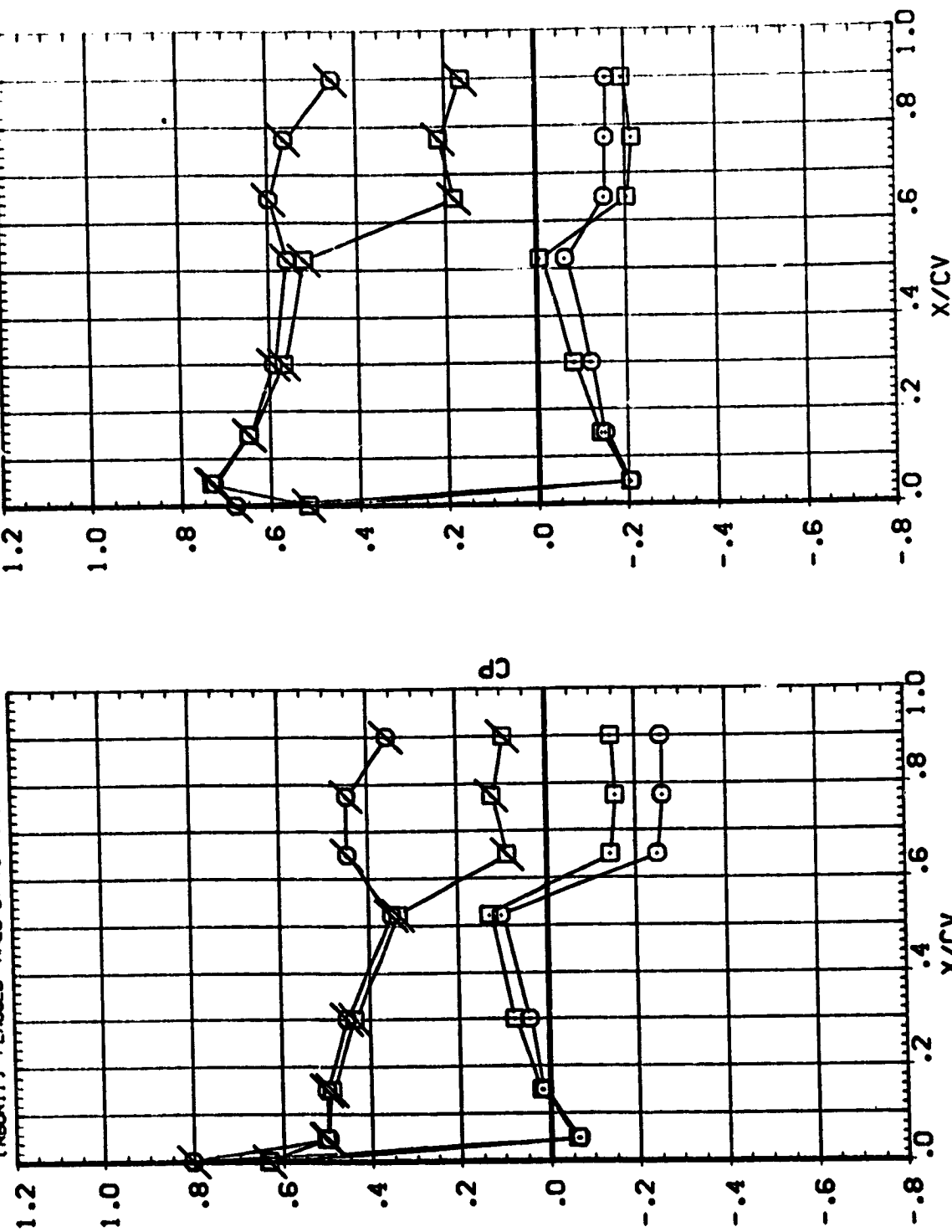
.158
 .316
 .500
 3.930
 8.040
 2.000
 ALWAY
 RUDDER
 RUOFLR
 -8.600
 -15.000
 ELEVON
 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 [REBOR!!!] OPEN AMES 97-707 IAS 02A + S3 + 19 LEFT VERTICAL
 [REBOR!!!] FLAGGED AMES 97-707 IAS 02A + S3 + 19 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

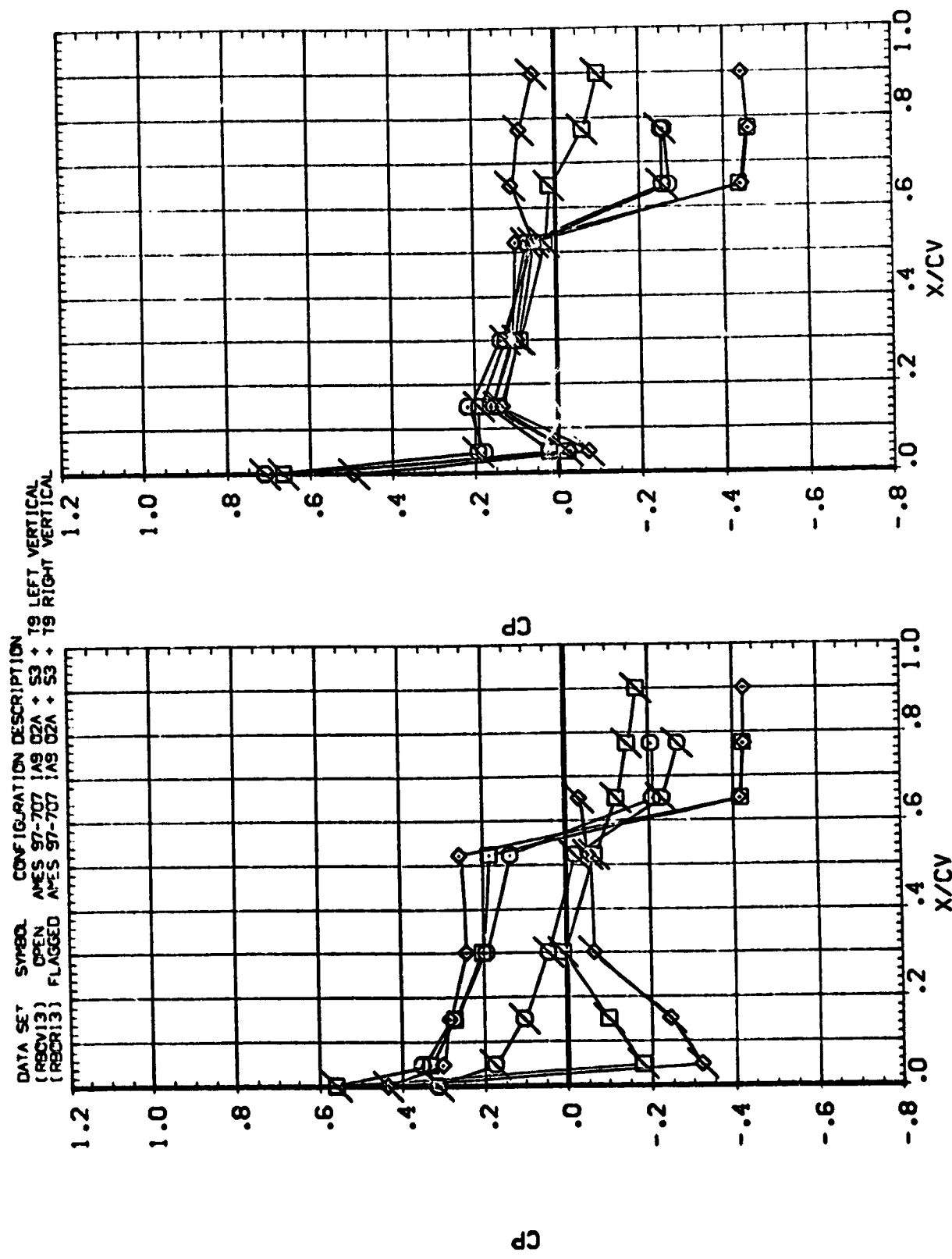
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBDV11) OPEN AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
 (RBDV11) FLAGGED AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

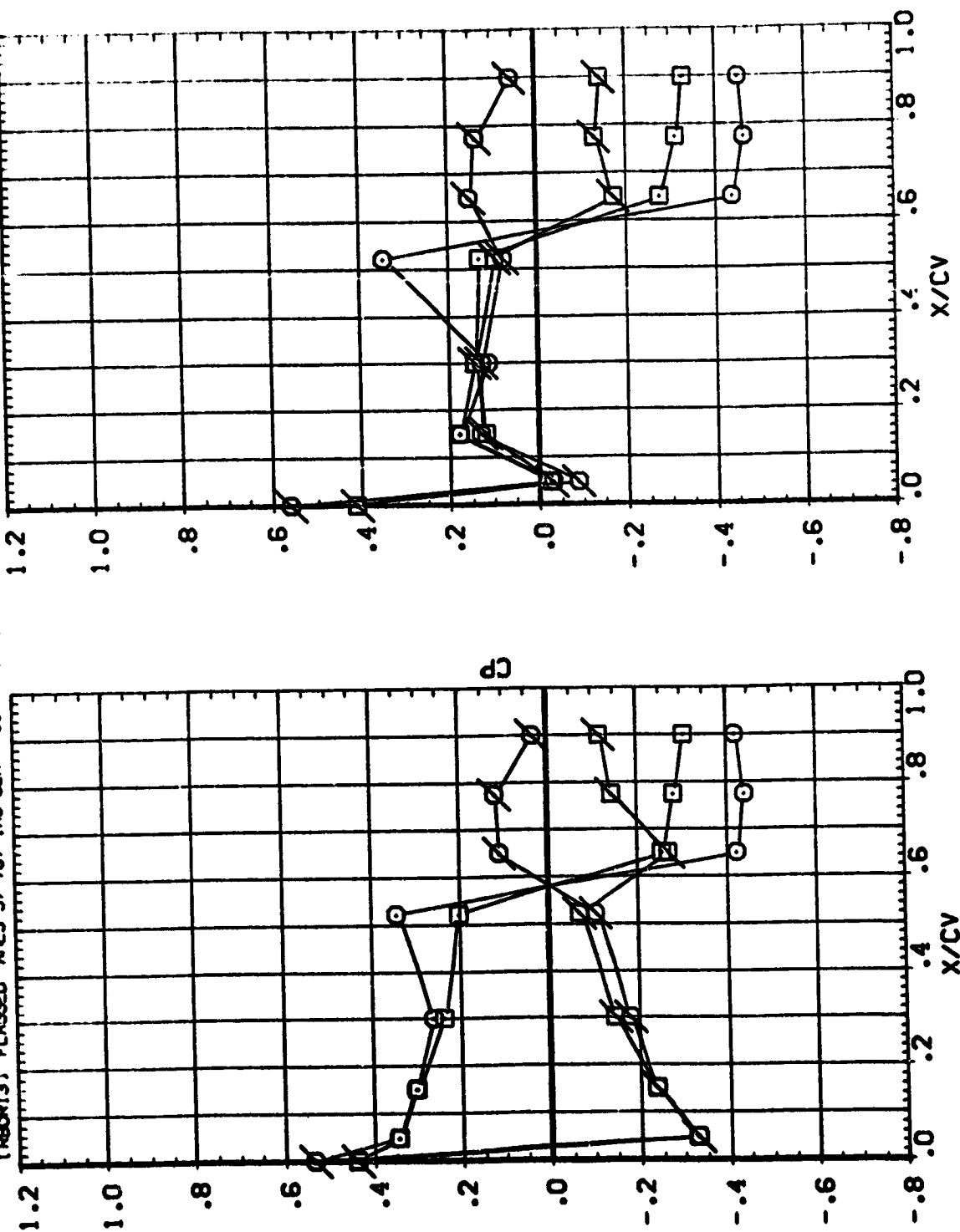
PARAMETRIC VALUES

ALPHAT	.000	CRBINC	.500
RUDDER	-15.000	ELEVON	.000
RUOFLR	.000		



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

DATA SET	SYMBOL	CONFIGURATION	DESCRIPTION
(RBOV13)	OPEN	ANES 97-707 I A9 D2A + S3 + T9	LEFT VERTICAL
(RBOV13)	FL AGGREG	ANES 97-707 I A9 D2A + S3 + T9	RIGHT VERTICAL



CHOROWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

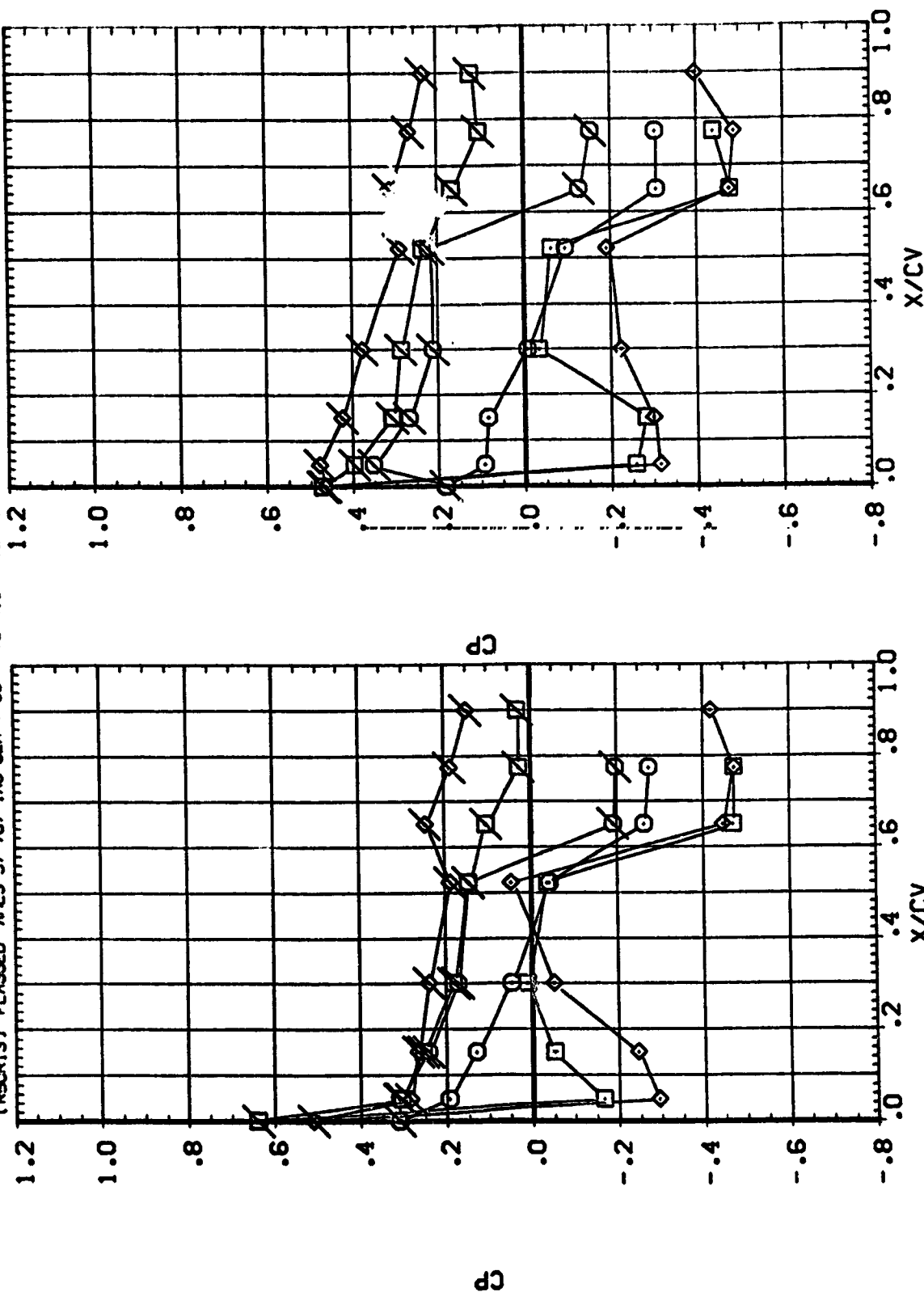
PARAMETRIC VALUES

ALPHAT	.000	ORBINC	.500
RUDDER	-15.000	ELEVON	.000
RLOFLR	.000		

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBOV13) OPEN AVES 97-707 IAS 02A + S3 + T9 LEFT VERTICAL
 (RBOV13) FLAGGED AVES 97-707 IAS 02A + S3 + T9 RIGHT VERTICAL

SYMBOL Z/BV BETAT MACH

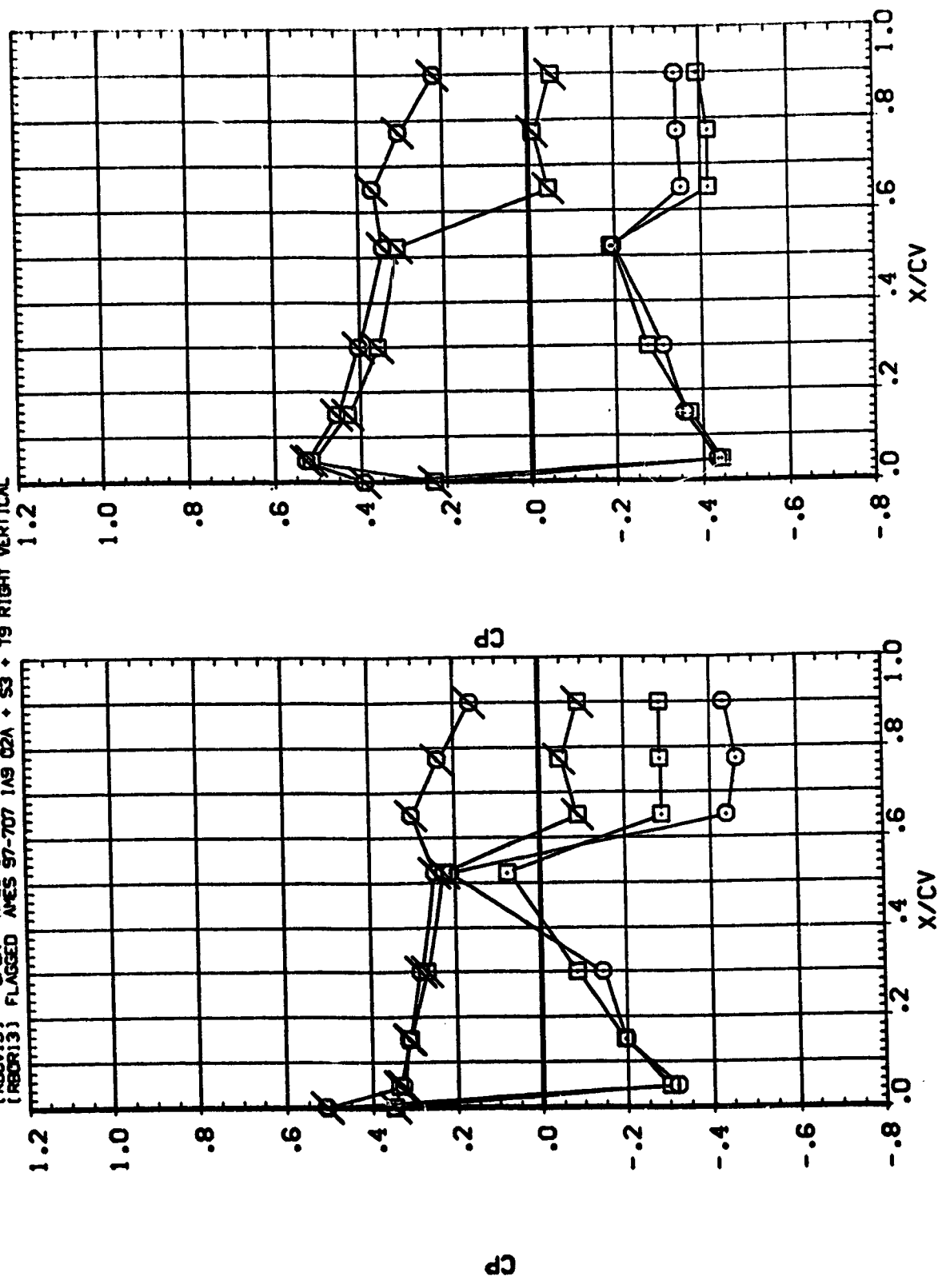
○	.158	3.940	1.555
□	.316	8.030	
◇	.600		



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

JTHULL LFLUL .940 3.940 1.555
 .925 8.030
 ALPHAI RUDDER RUDFLR
 .000 -15.000 .000
 UNCLIN ELEVON
 INCU .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (REDO13) OPEN AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
 (REDO13) FLAGGED AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

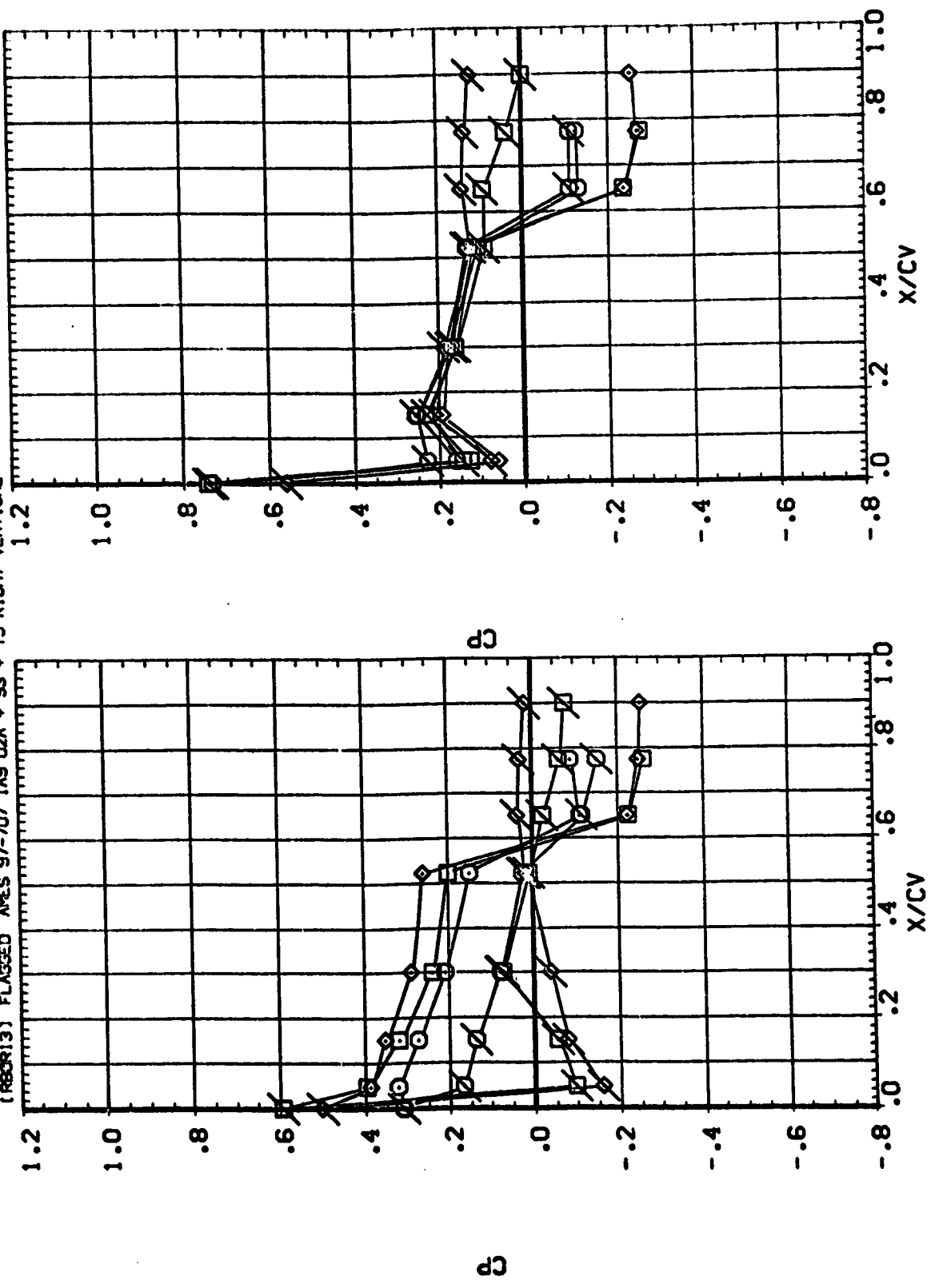
ALPHAT	.000	ORBITC	.500
RJODER	-15.000	ELEVON	.000
RJOFLLR	.000		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RBDV13)	OPEN	AVES 97-707 IAS 02A + S3 + T9 LEFT VERTICAL
(RBDV13)	FLAGGED	AVES 97-707 IAS 02A + S3 + T9 RIGHT VERTICAL

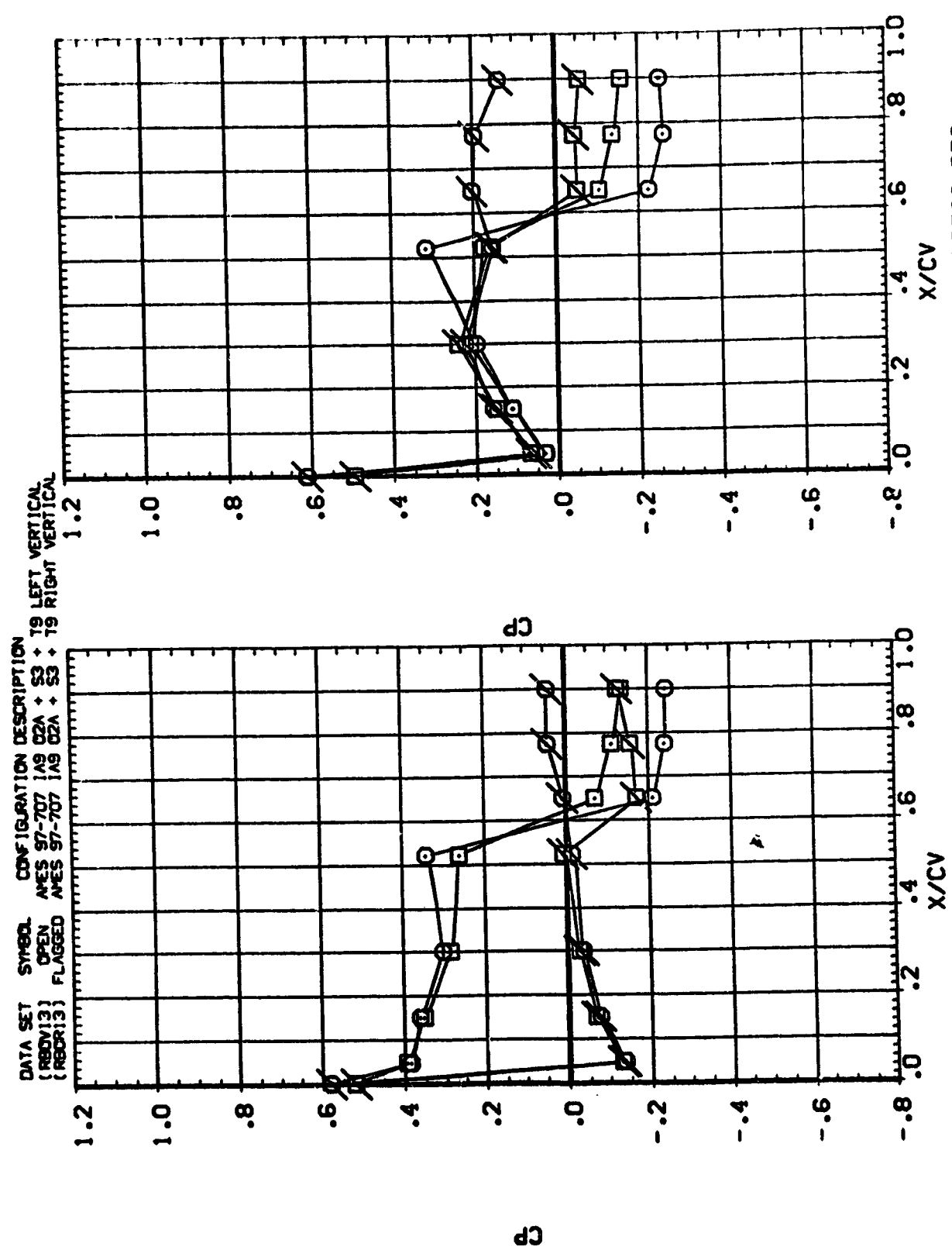
SYMBOL Z/BV BETAT MACH

○	.158	-4.220	2.000
□	.316	-.140	
◇	.600		



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

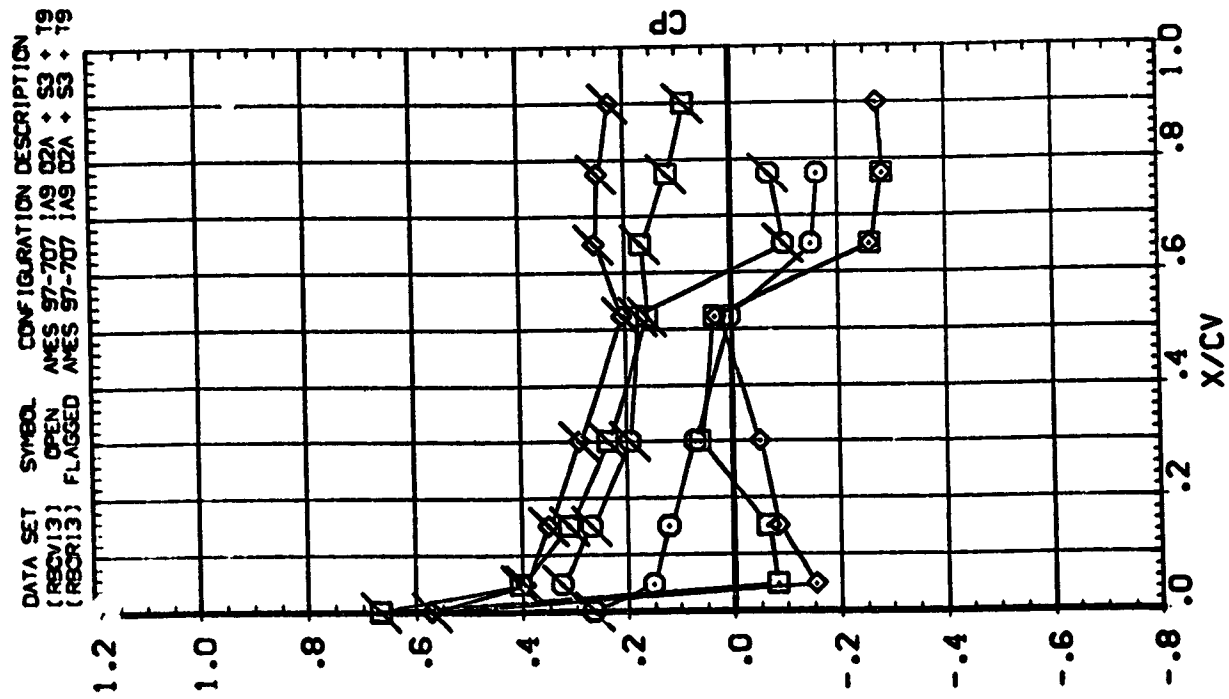
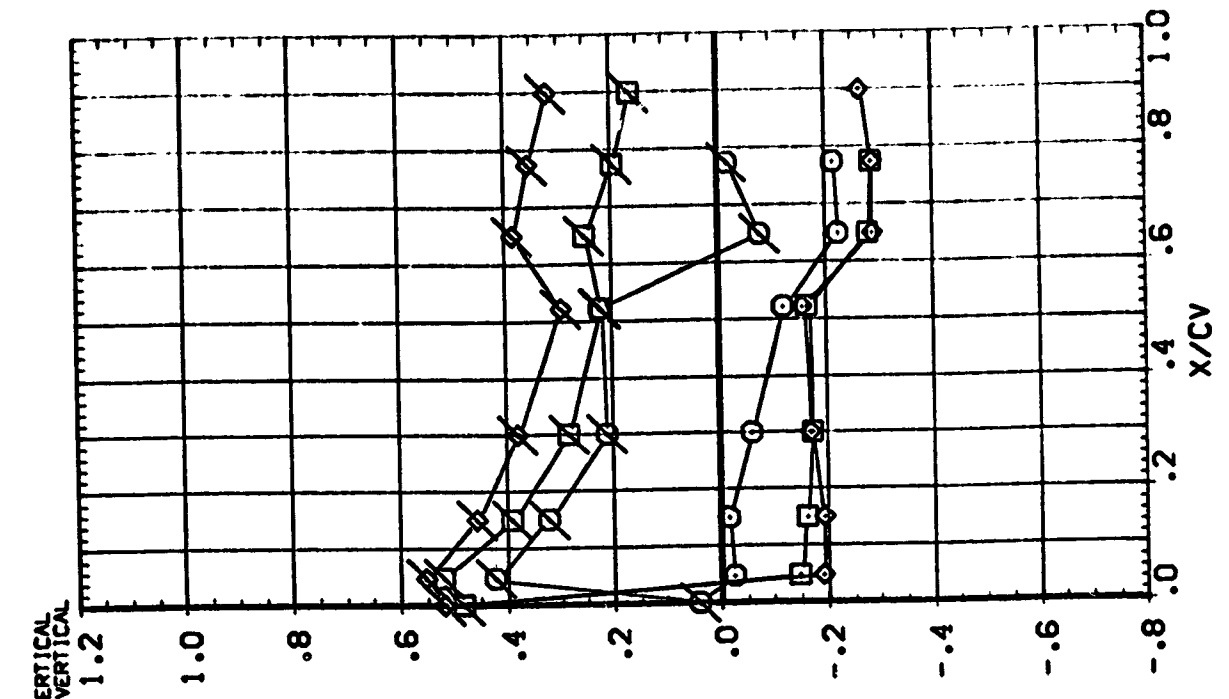
SYMBOL	Z/BV	BETAT	MACH	PARAMETRIC VALUES
○	.840	-4.220	2.000	ALPHAT .000 ORBINC .000
□	.925	-.140		RUDER -15.000 ELEVON .000
				R.O.FLR .000



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

ALPHAT	.000	099:NC	.500
RUDDER	-15.000	ELEVON	.000
RUOFLR	.000		



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RBCV13)	OPEN	AVES 97-707 1A9 02A + S3 + 19 LEFT VERTICAL
(RBCV13)	FLAGGED	AVES 97-707 1A9 02A + S3 + 19 RIGHT VERTICAL

CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARATRIC VAL-ES

BETAT	MACB
3.930	2.000

CONFIGURATION DESCRIPTION



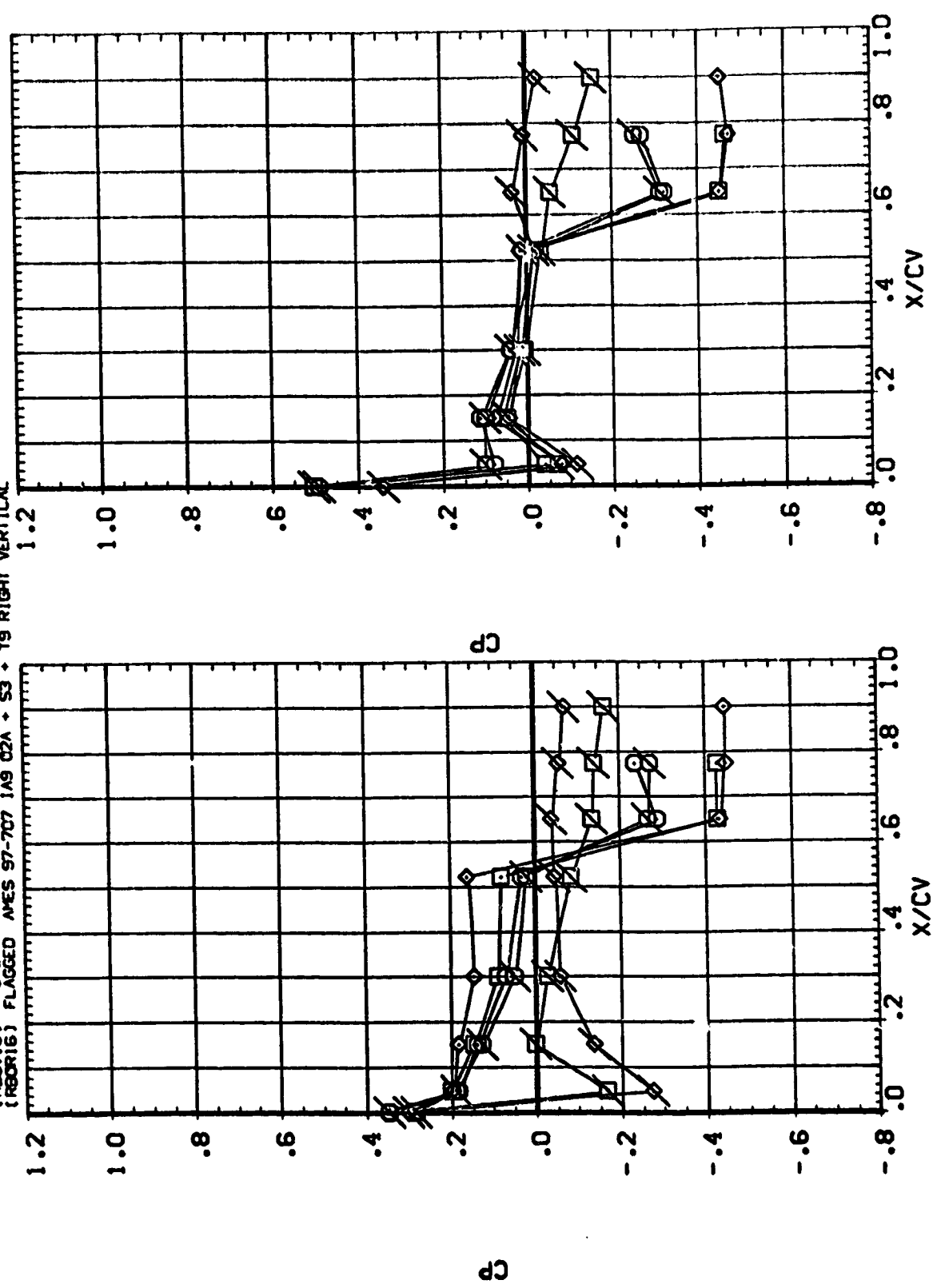
PAGE 340

PARAMETRIC VALUES
 8.000 ORBINC .500
 -15.000 ELEVON .000

ALPHAT
 RLODR
 RLOFLR

SYMBOL Z/BV BETAT MACH
 .158 -4.240 1.555
 .316 -.110
 .600

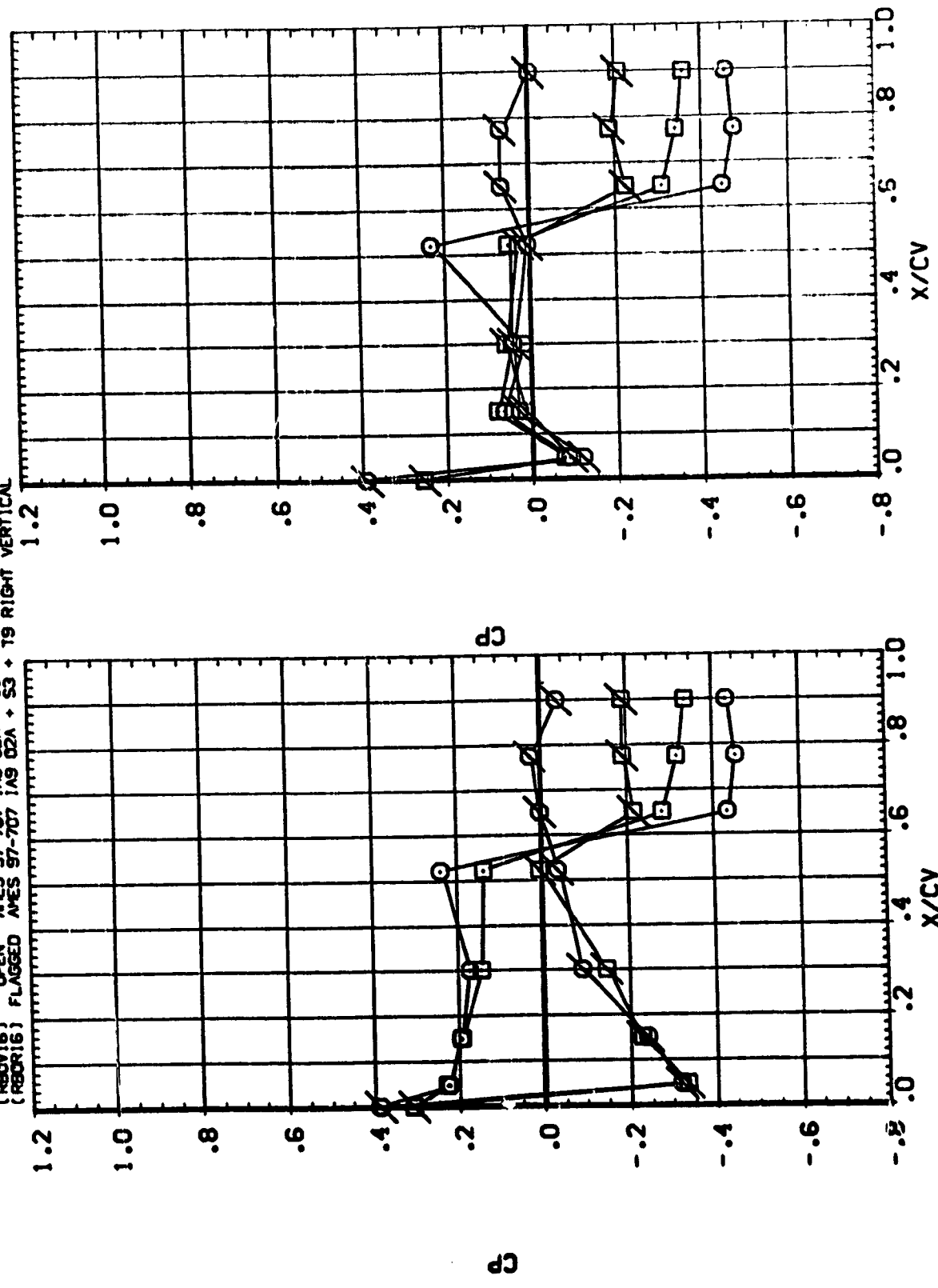
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBOV16) OPEN AMES 97-707 1A9 Q2A + S3 + T9 LEFT VERTICAL
 (RBOV16) FLAGGED AMES 97-707 1A9 Q2A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL Z/BV BETAT MACH
 0 .940 -4.240 1.555
 1 .925 -.110

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBDV16) OPEN AYES 97-707 IAG 02A + S3 + T9 LEFT VERTICAL
 (RBDV16) FLAGGED AYES 97-707 IAG 02A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



SYMBOL
 1.158
 .316
 .603

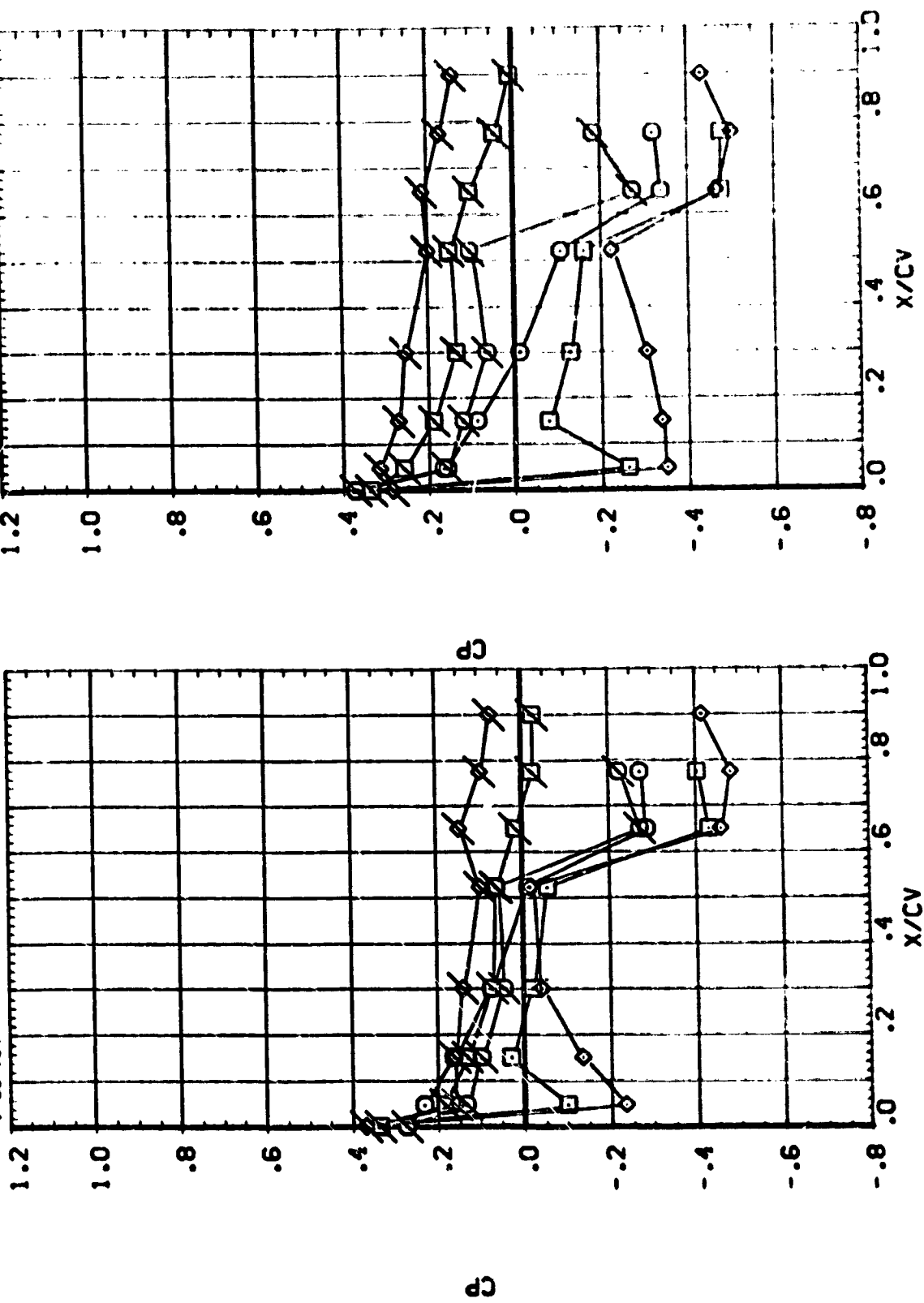
Z/BV
 .158
 .316
 .603

SETAT
 4.000
 8.120

MACH
 1.555

PARAMETRIC VALUES
 ALPHAT 8.000
 RUDER -.5.000
 RUDFLR .000
 ORBINC .500
 ELEVEN .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (PROV16) OPEN ANES 97-707 1A9 02A - S3 : T9 LEFT VERTICAL
 (PROV16) FLAGGED ANES 97-707 1A9 02A - S3 : T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETER VALUES

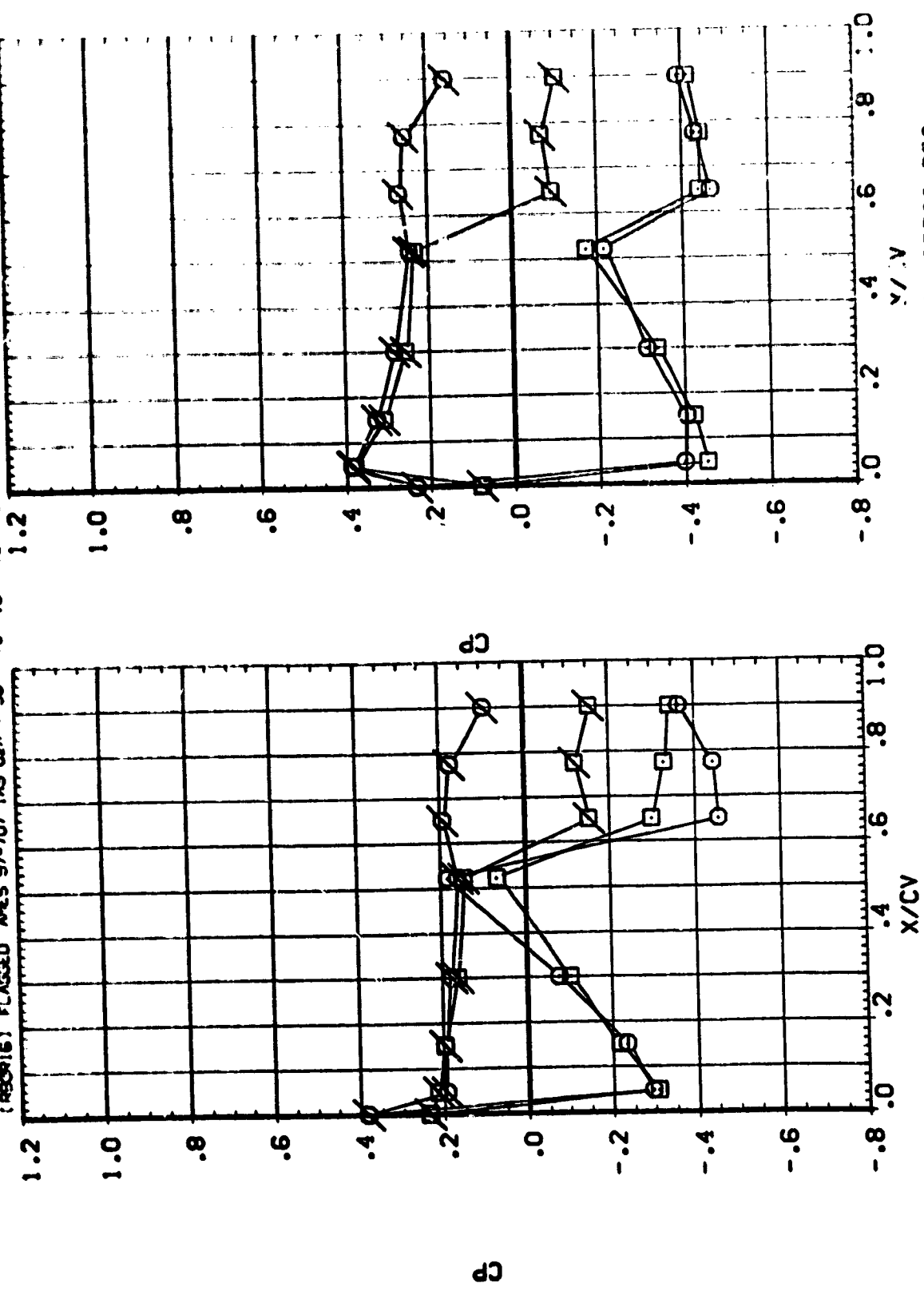
ALPHA	0.000	0.000	0.000
BETAS	0.000	0.000	0.000
ROTOR	0.000	0.000	0.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RECV16)	OPEN	APES 97-707	1A9 02A : S3 : 79 LEFT VERTICAL
(RECV16)	FLAGGED	APES 97-707	1A9 02A : S3 : 79 RIGHT VERTICAL

SYMBOL Z/BV BETAT MACH

○	.040	4.000	1.555
□	.025	0.120	

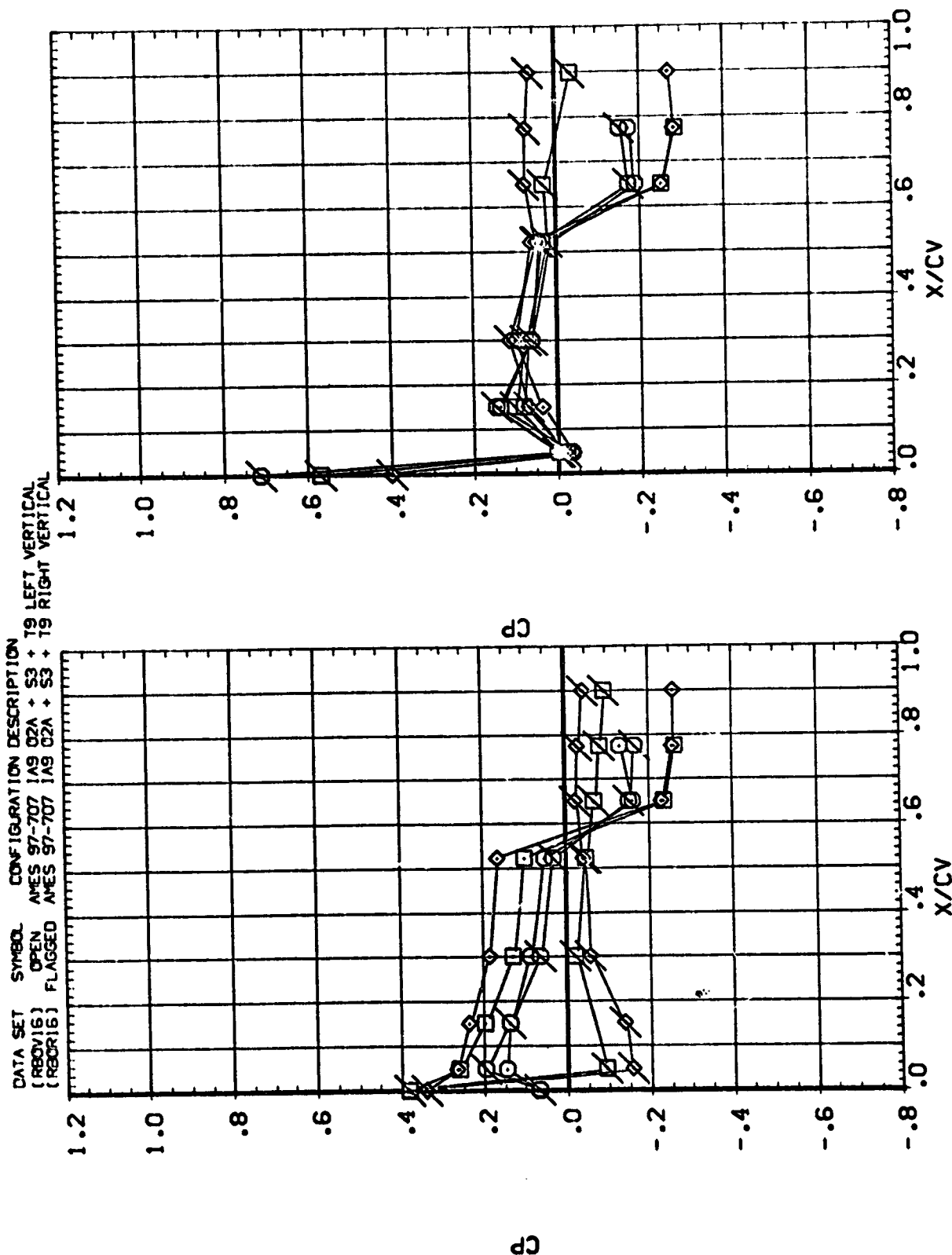


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

ALPHA
RUDDER
RUDDER

S ⁹⁰ BC	Z/BV	BETAT	MACH
010	.158	-4.220	2.000
011	.316	-.120	
012	.600		

DATA SET	SYMBOL	CONFIGURATION	DESCRIPTION
(RBOV16)	OPEN	AMES 97-707 IAG Q2A + S3 + T	
(RBOV16)	FLAGGED	AMES 97-707 IAG Q2A + S3 + T	



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

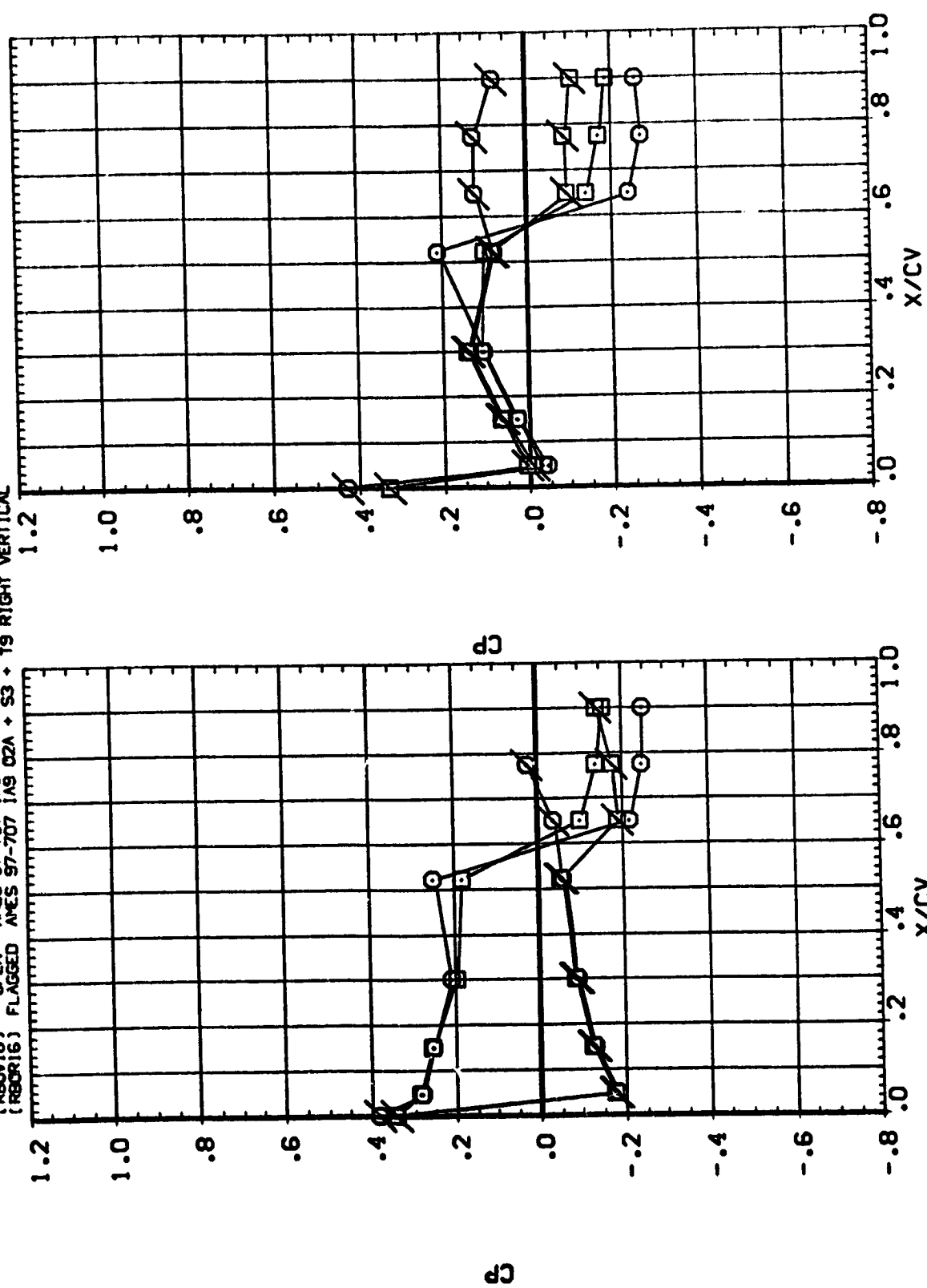
ALPHAT	8.000	ORBNIC	.500
RUDDER	-15.000	ELEVON	.000
RUDFLR	.000		

SYMBOL

Z/BV	BETAT	MACH
.940	-4.220	2.1000
.925	-.120	

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RBOV16)	OPEN	AVES 97-707 IAS 02A + S3 + T9 LEFT VERTICAL
(RBOV16)	FLAGGED	AVES 97-707 IAS 02A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

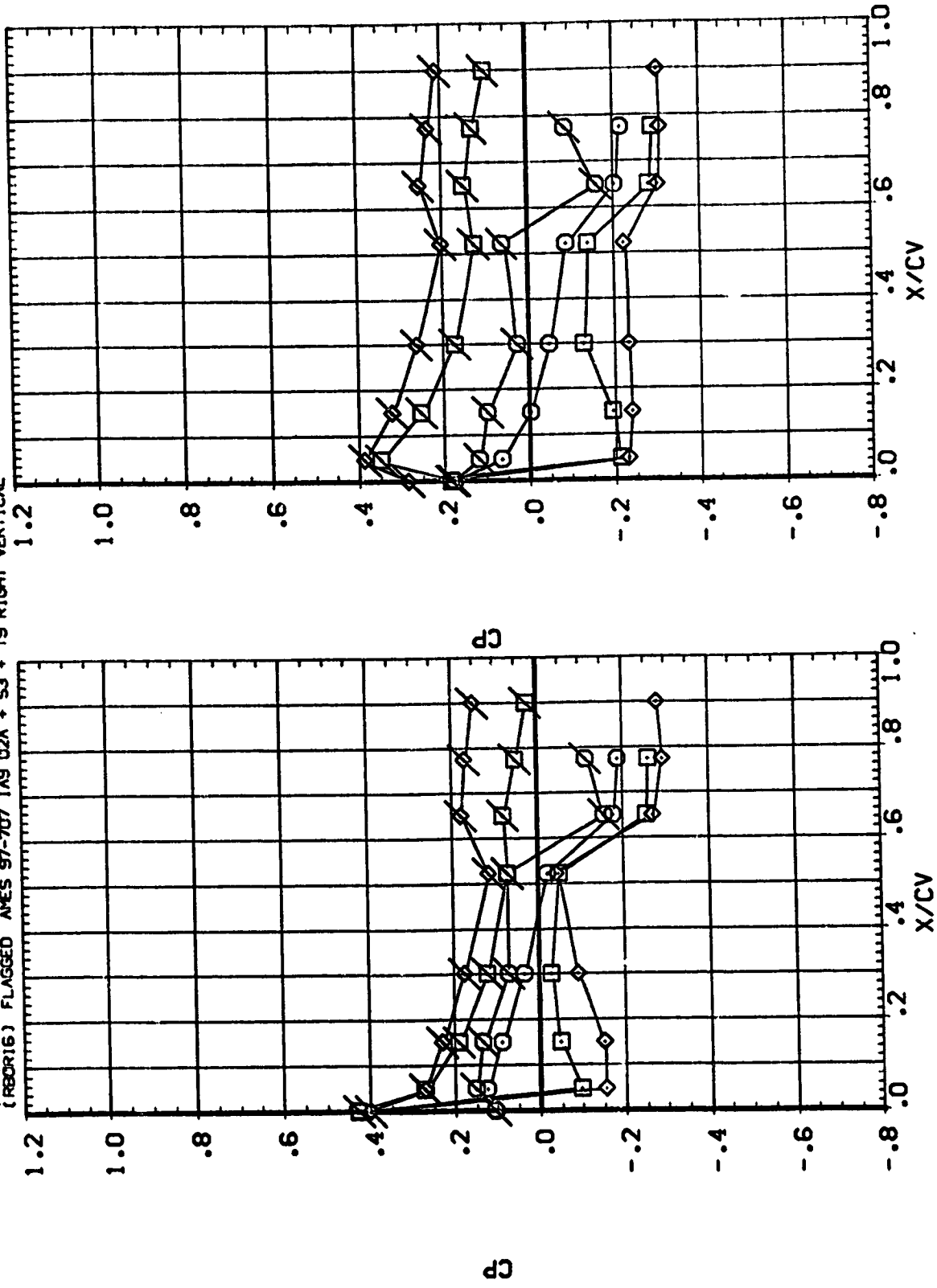
ALPHAT	8.000	ORBITC	.500
RUDER	-15.000	ELEVON	.000
RUDFLR	.000		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

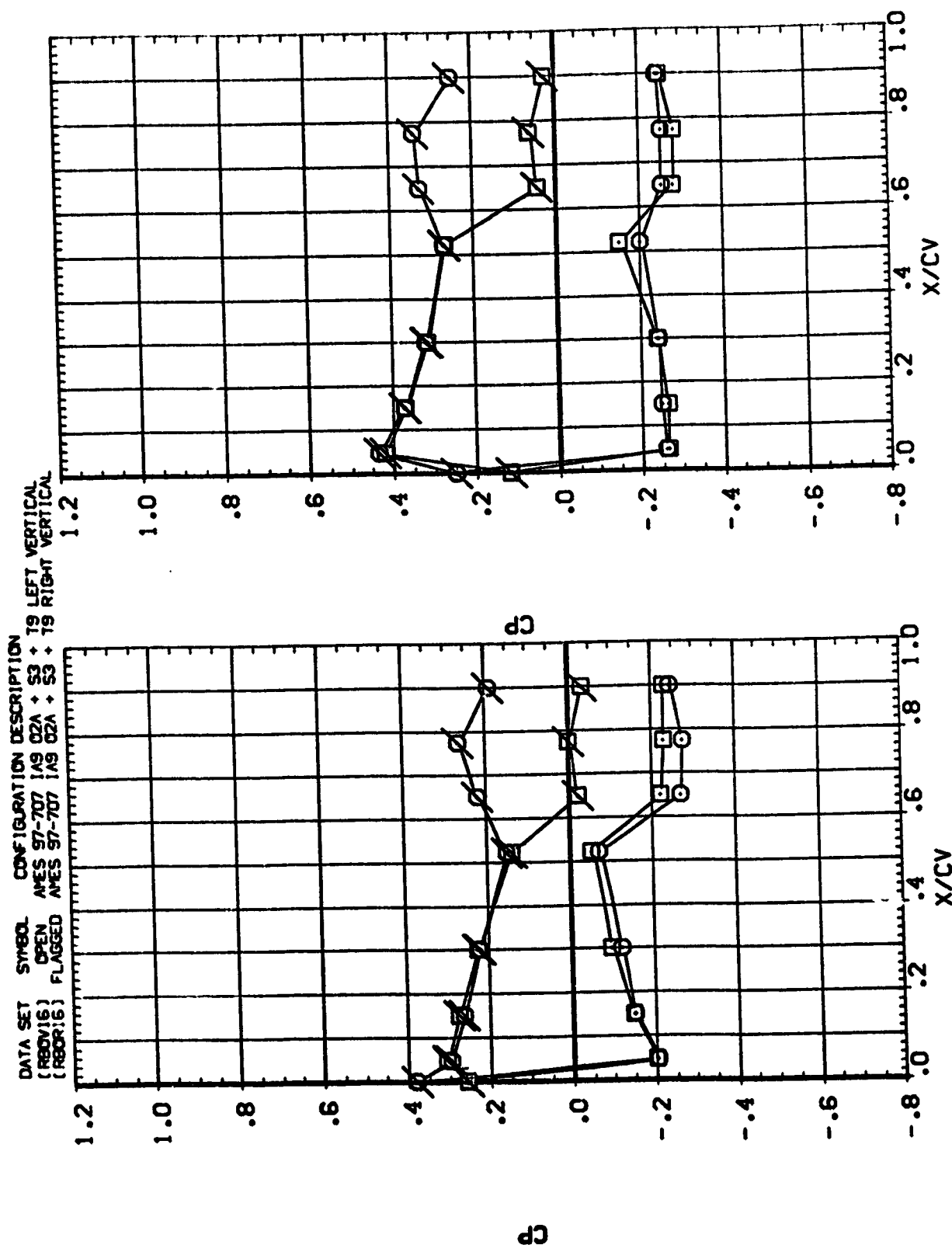
(RBDV16)	OPEN	AVES 97-707 IAS 02A + S3 + T9 LEFT VERTICAL
(RBDRI6)	FLAGGED	AVES 97-707 IAS 02A + S3 + T9 RIGHT VERTICAL

SYMBOL Z/BV BETAT MACH

○	.158	3.990	2.000
□	.316	8.110	
◇	.600		



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

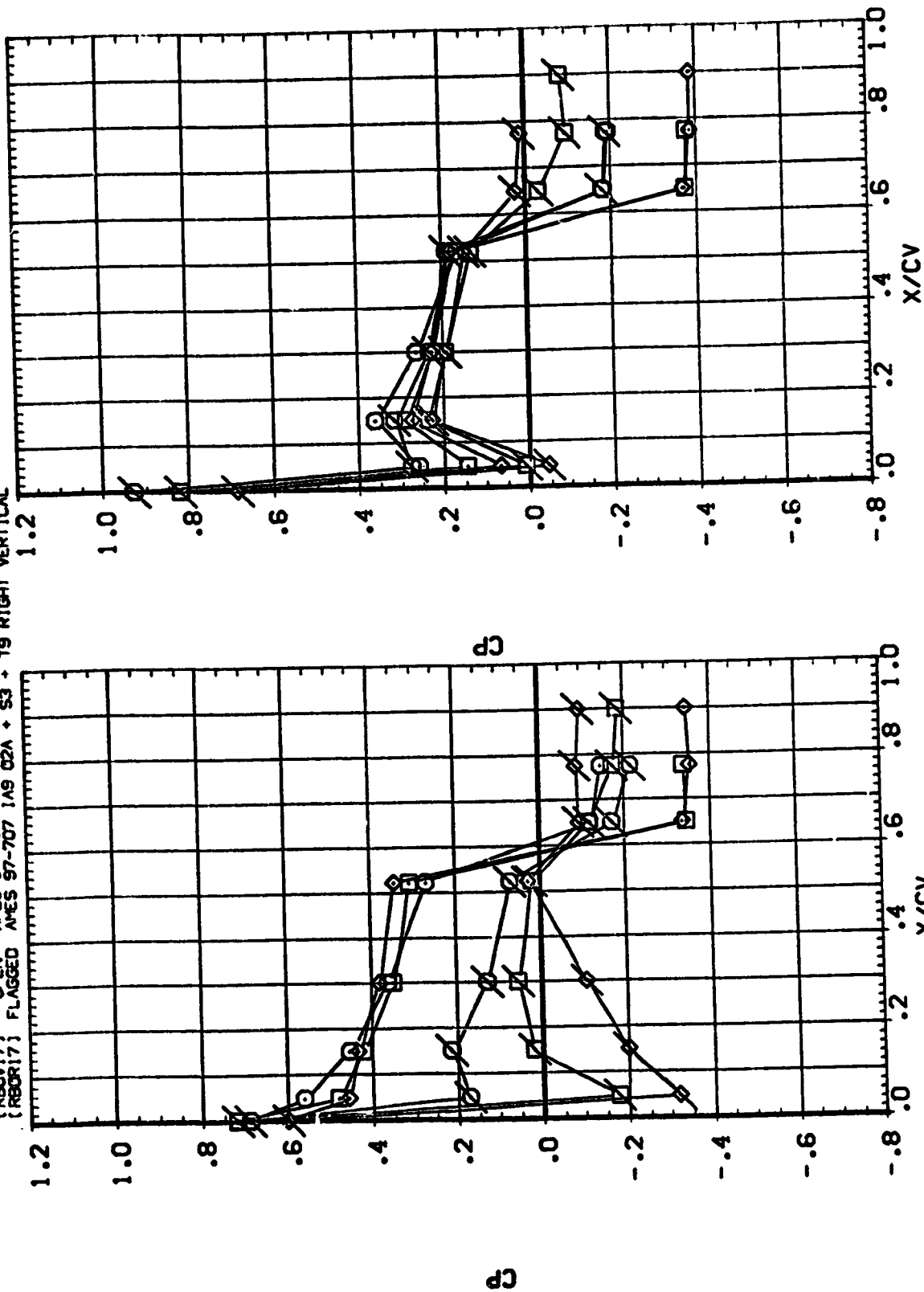
ALPHAT	-8.000	ORBNIC	.500
RUDDER	-10.000	ELEVON	.000
RUDDFLR	.000		

SYMBOL Z/BV BETAT MACH

○	.158	-4.300	1.555
□	.316	-.180	
◇	.600		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RBDV17)	OPEN	AVES 97-707 IAS 02A + S3 + T9 LEFT VERTICAL
(RBDV17)	FLAGGED	AVES 97-707 IAS 02A + S3 + T9 RIGHT VERTICAL

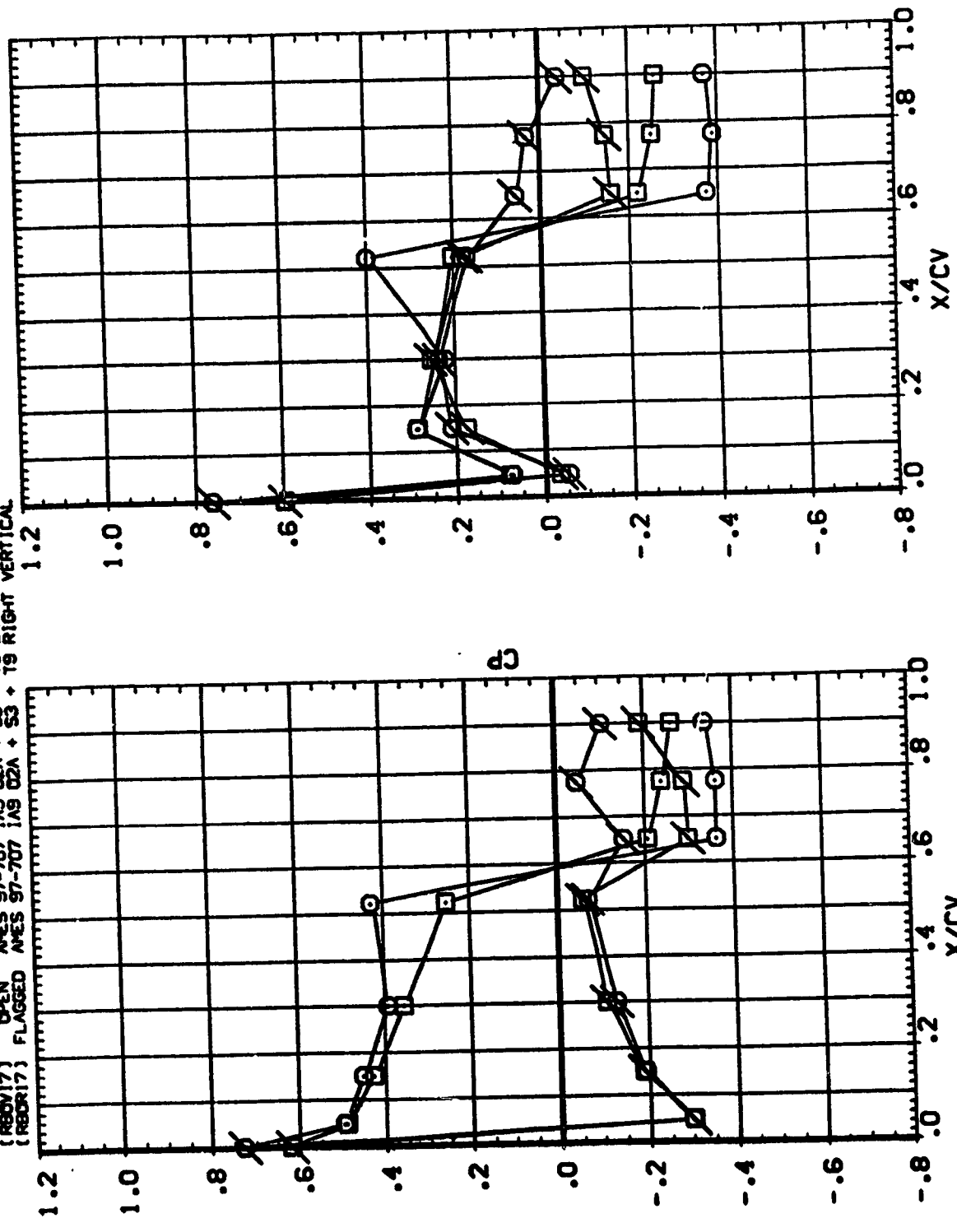


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

RUDDER
 RUOFLR
 -10.000
 .000
 ELEVON
 .000

SYMBO
 7/20
 .040
 .525
 -4.300
 -1.180
 1.555

DATA SET
 (RBDV17)
 (RBDV17)
 SYMBO
 OPEN
 FLAGGED
 ANES 97-707
 ANES 97-707
 IAS 02A + S3
 IAS 02A + S3
 T9 LEFT VERTICAL
 T9 RIGHT VERTICAL

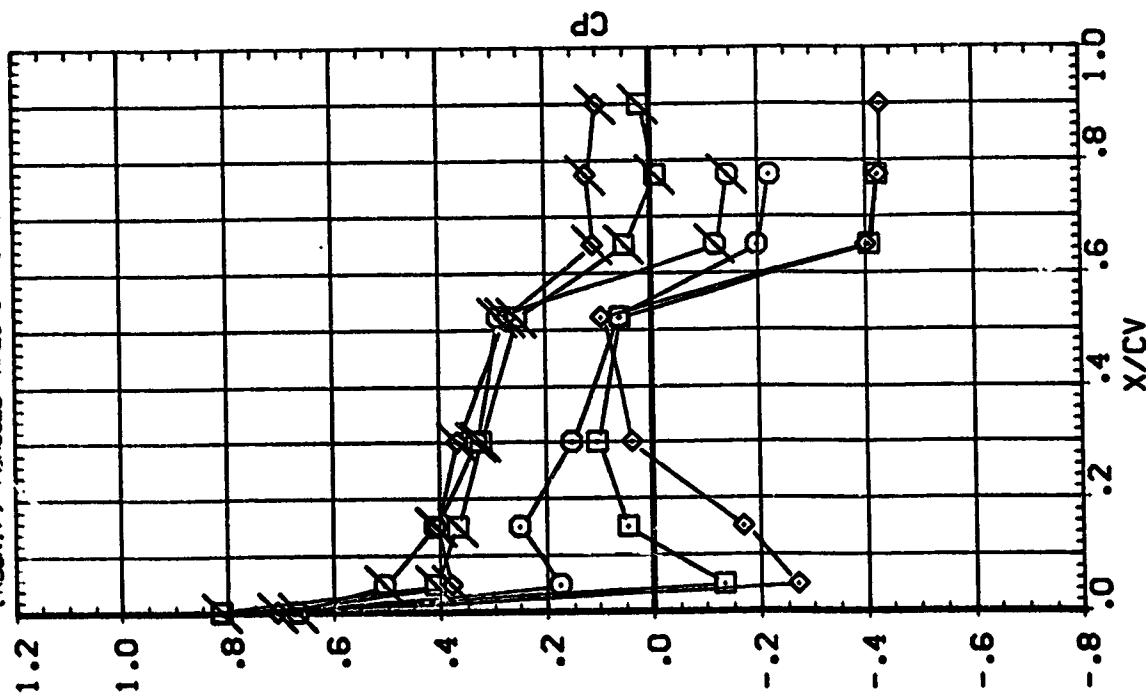
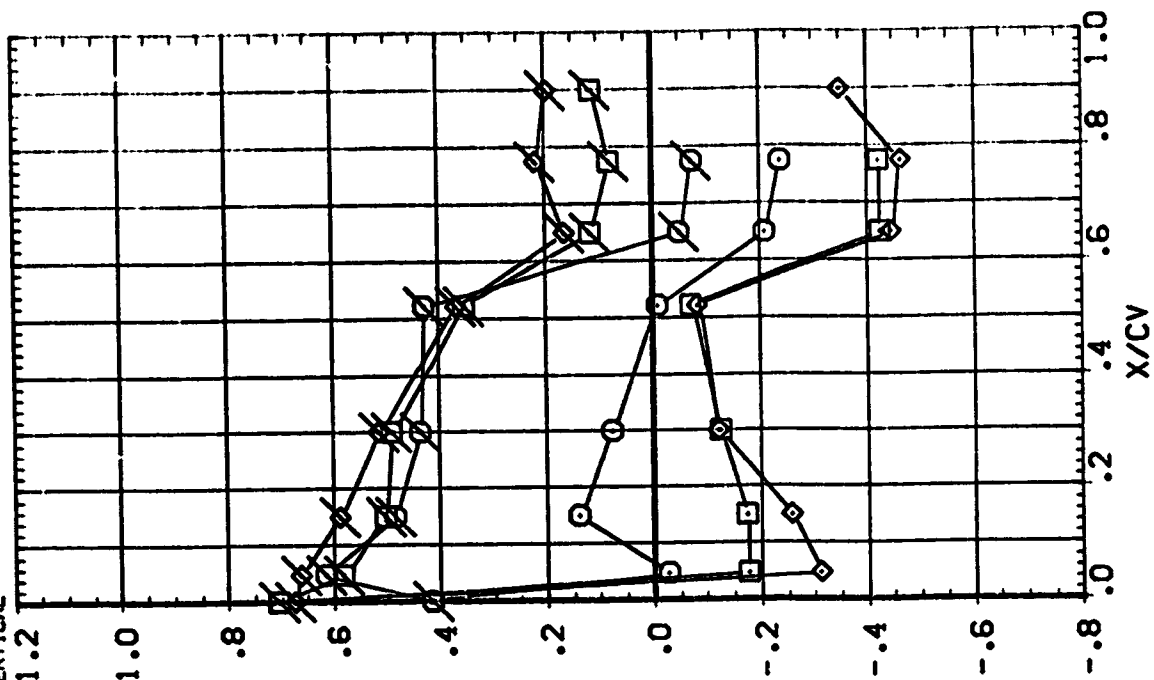


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

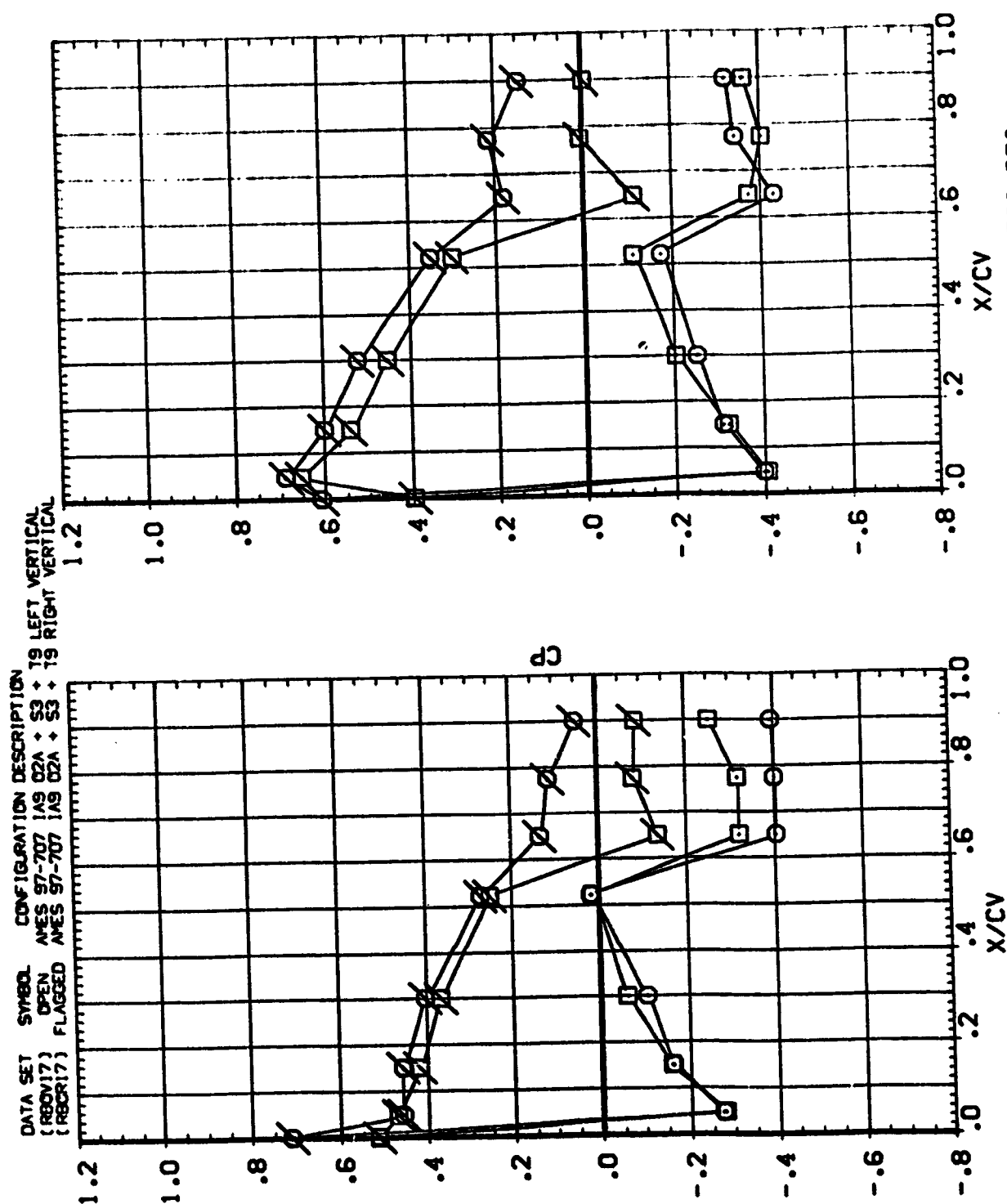
PARAMETRIC VALUES
 ALPHAT -8.000 CRBINC .000
 RUDDER -10.000 ELEVON .000
 RUOFLR .000

SYMBOL Z/BV BETAT MACH
 .158 3.930 1.555
 .316 8.050
 .600

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (R00V17) OPEN ARES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
 (R00R17) FLAGGED ARES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



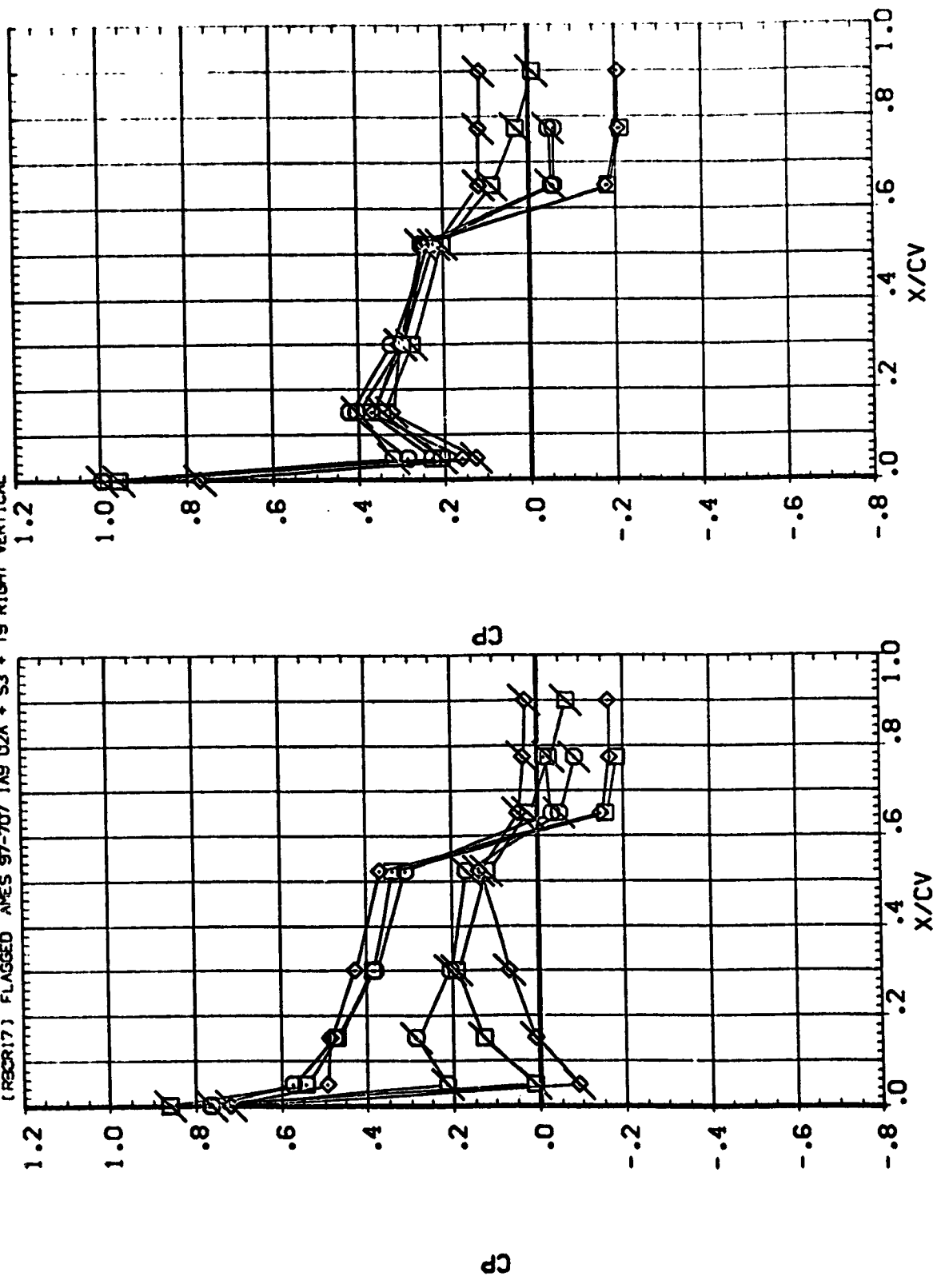
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES		X/2V	PAGE
1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24
25	26	27	28
29	30	31	32
33	34	35	36
37	38	39	40
41	42	43	44
45	46	47	48
49	50	51	52
53	54	55	56
57	58	59	60
61	62	63	64
65	66	67	68
69	70	71	72
73	74	75	76
77	78	79	80
81	82	83	84
85	86	87	88
89	90	91	92
93	94	95	96
97	98	99	100

PARAMETRIC VALUES
 -8.000 DB:NC
 -10.000 ELEVON
 .000

ALPHA
 RUDDER
 RUOFLR

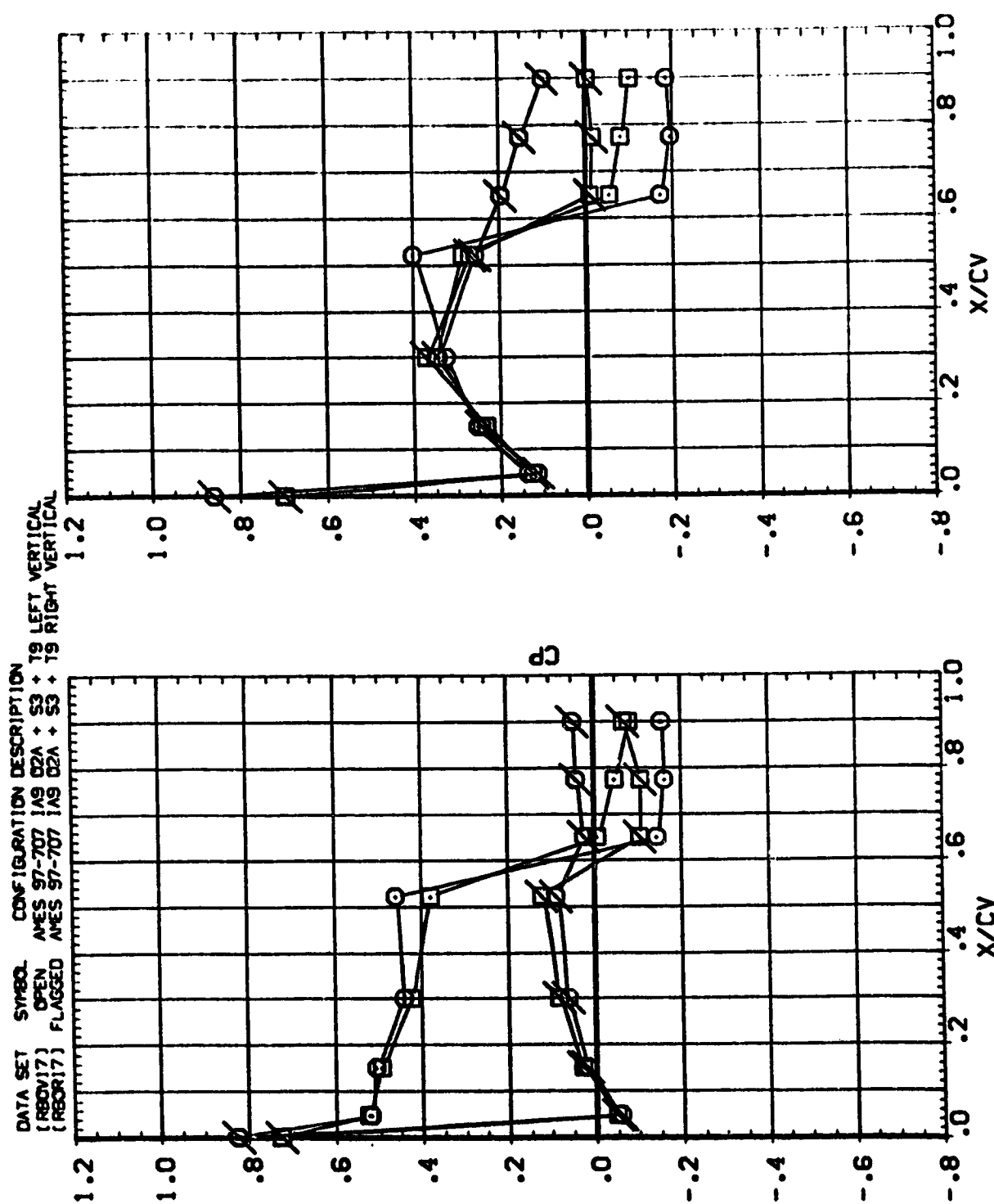
SYMBOL Z/BV BETAT MACH
 .158 -4.280 2.000
 .316 -.170
 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBCV17) OPEN ASES 97-707 1A9 02A + S3 + 19 LEFT VERTICAL
 (RBCV17) FLAGGED ASES 97-707 1A9 02A + S3 + 19 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/6V	BEY/4	2.000
□	.840	-4.280	
□	.925	-.170	

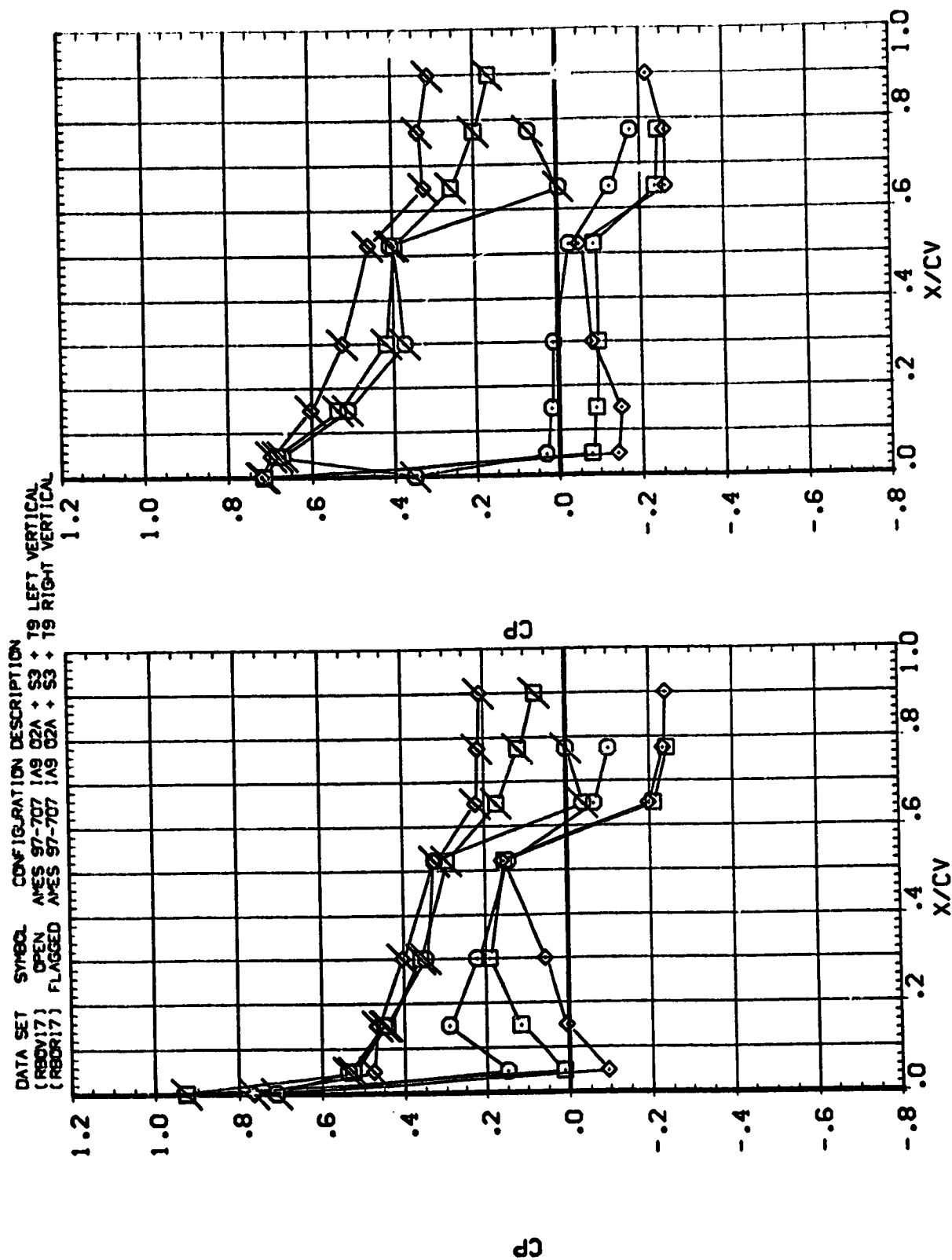


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



SYMBOL Z/BV BETAT MACH
□ .158 3.930 2.000
□ .316 8.040
◇ .600

PARAMETRIC VALUES
ALPHAT -8.000 DRBINC .500
RUDDER -10.000 ELEVON .000
RDEFLE .000



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

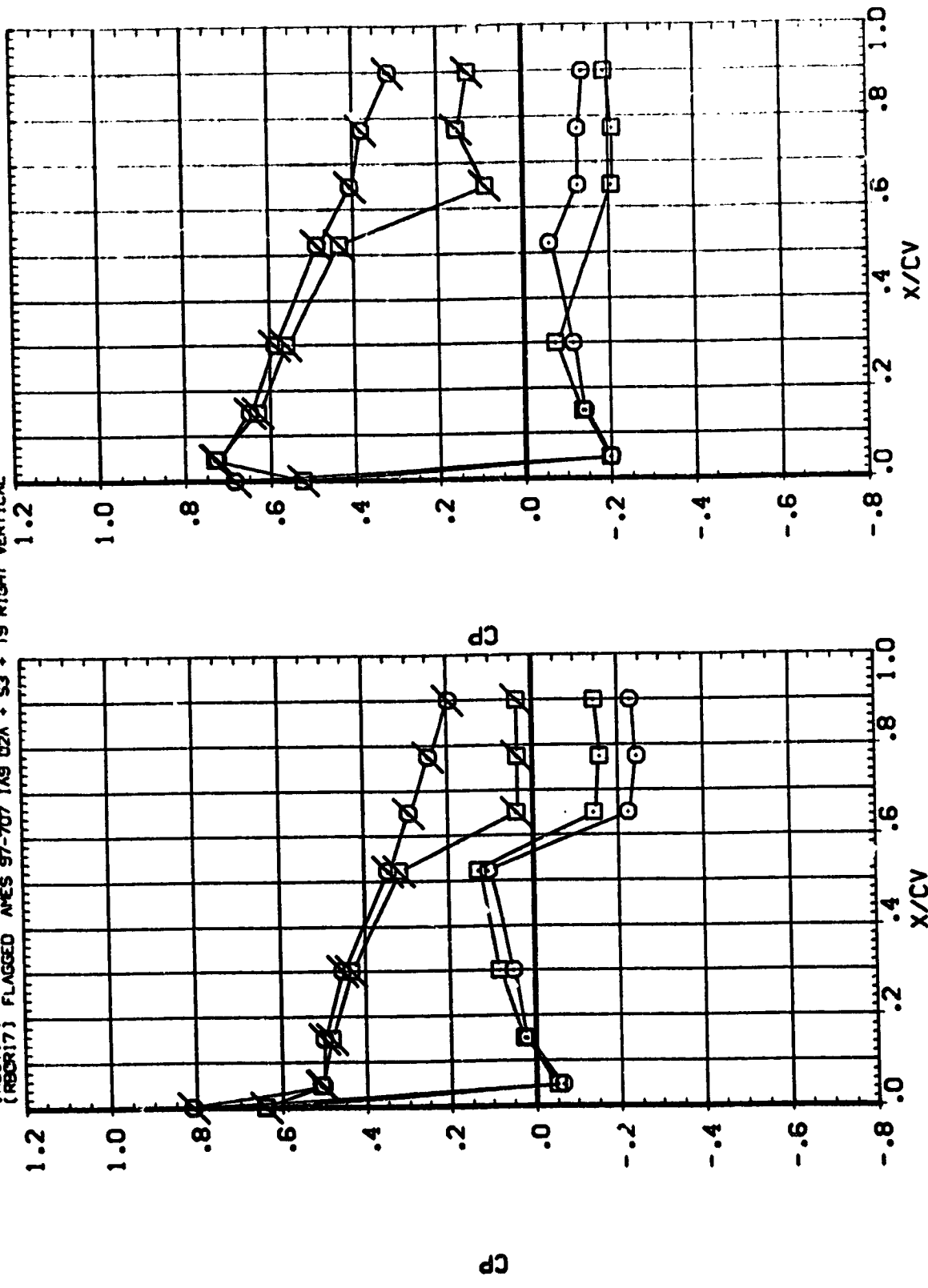
ALPHAT	-8.000	DRG:NC	.500
RUDER	-10.000	ELEVON	.000
RJFLR			.000

SYMBOL Z/BV BETAT MACH

○	.840	3.930	2.000
□	.925	8.040	

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RBOV17)	OPEN	AVES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RBOV17)	FLAGGED	AVES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



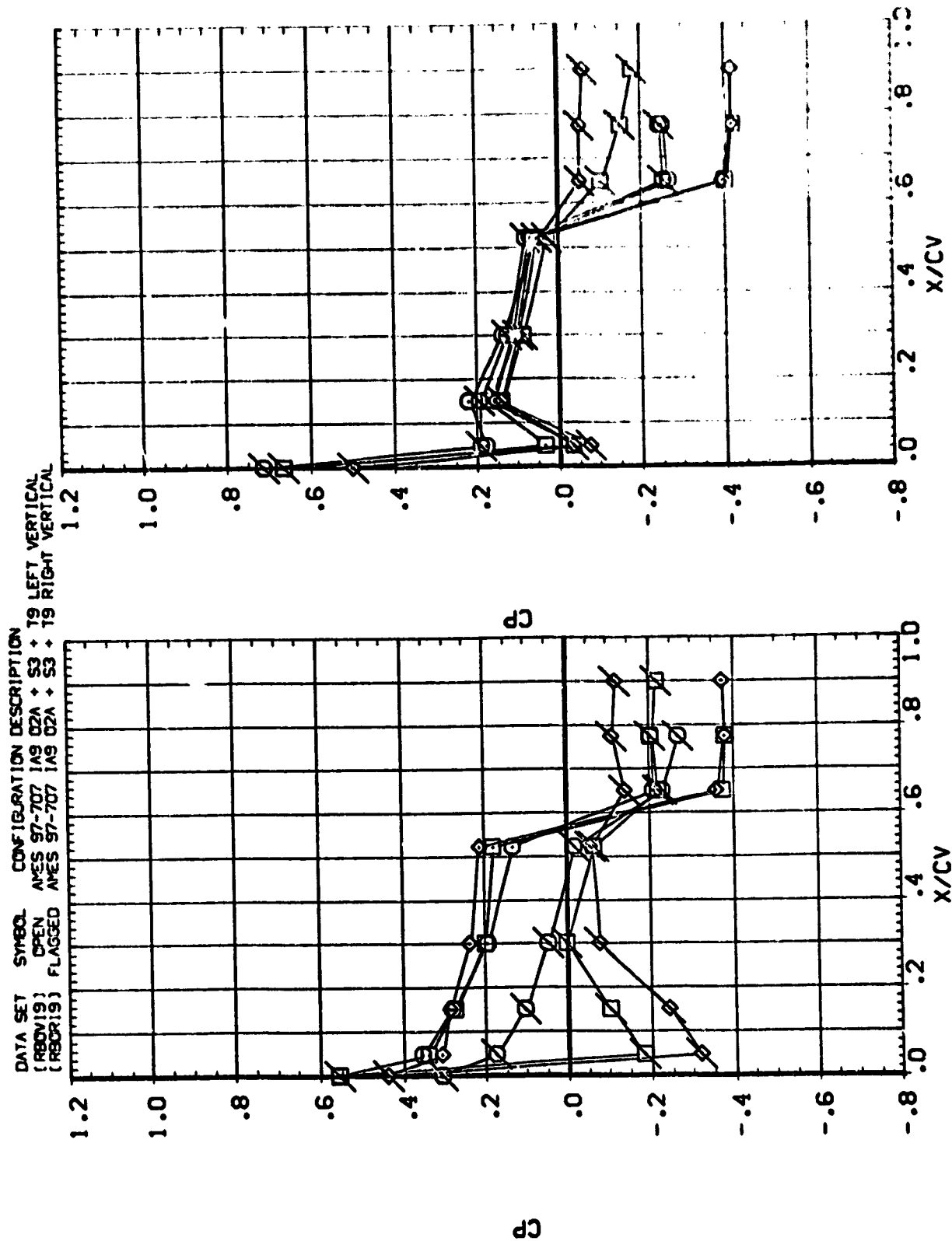
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

ALPHAT	.000	ORBNIC	.000
RUDDER	-10.000	ELEVON	.000
RUDCLR	.000		

SYMBOL Z/B% BETAT MACH

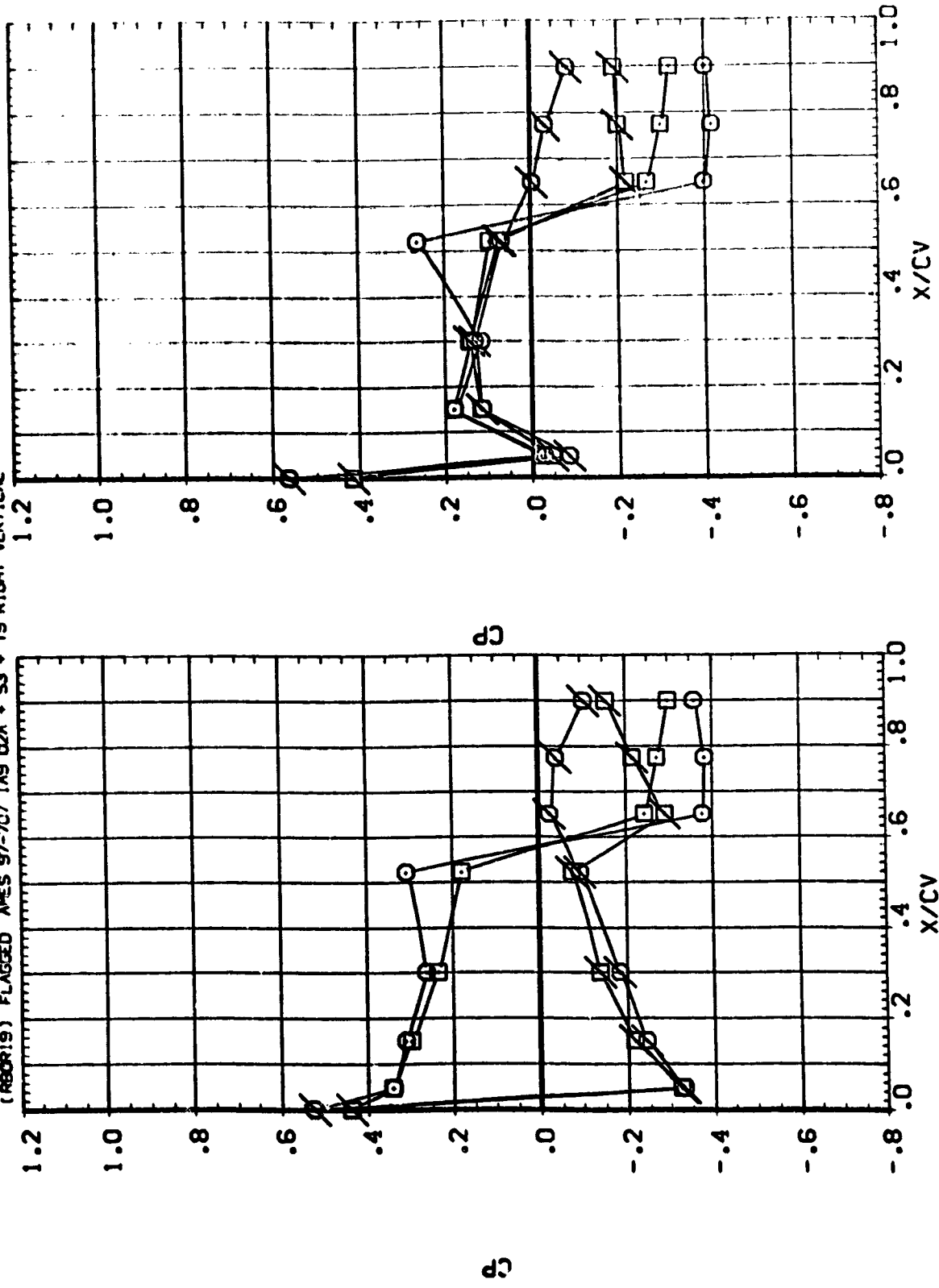
○	.150	-4.240	1.555
□	.316	-.140	
◇	.600		



PARAMETRIC VALUES
 ALPHAT .000
 RCDSE9 -10.000
 RCDSE9 .000

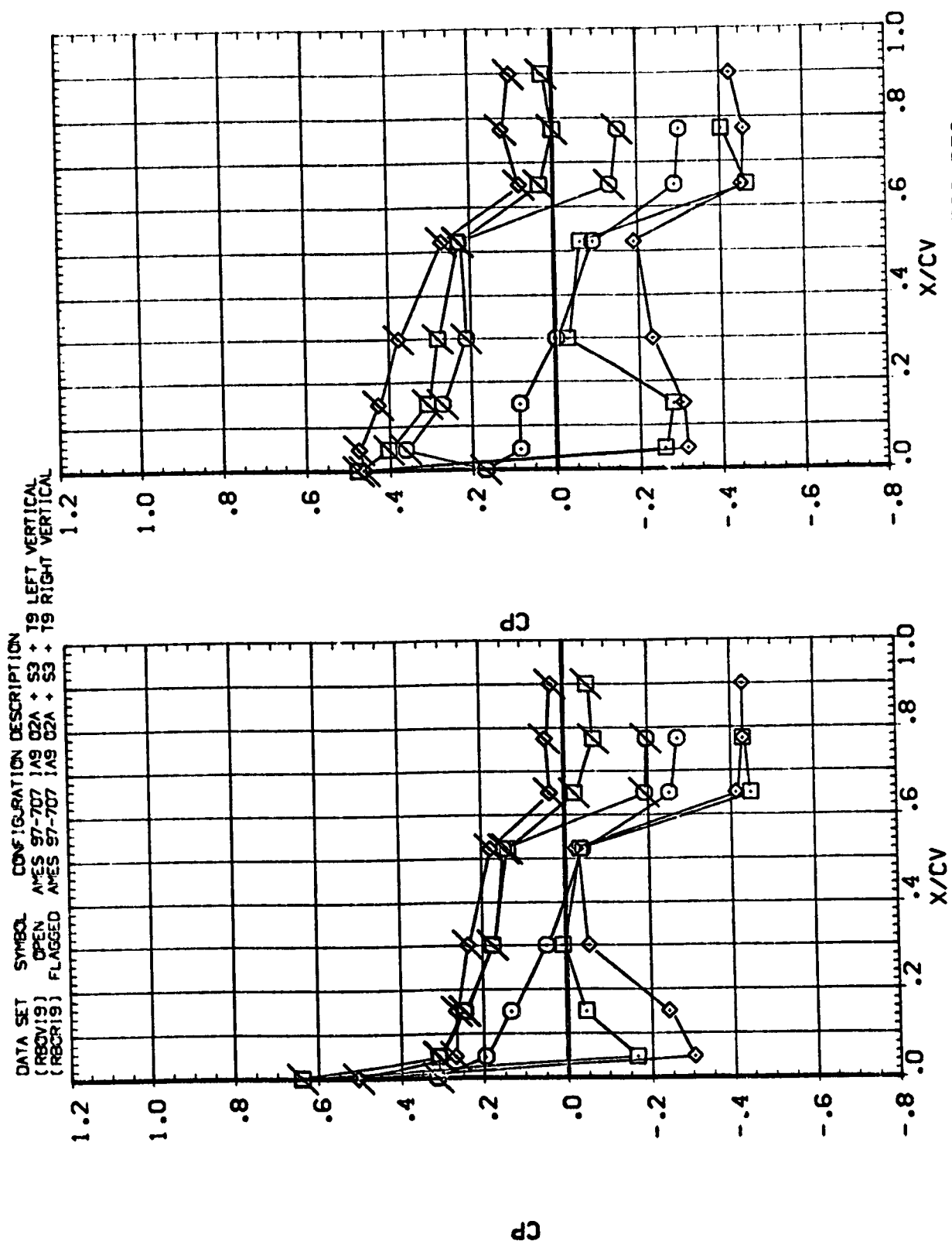
SYMBOL Z/BV BETAT MACH
 ○ .040 -4.240 1.555
 □ .925 -.140

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBOV19) OPEN AMES 97-707 1A9 02A + S3 + 19 LEFT VERTICAL
 (RBOV19) FLAGGED AMES 97-707 1A9 02A + S3 + 19 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL \diamond \square \circ
 2/EV .158 3.950 1.555
 11/11 8.040
 ALPHAT .000
 RIDGER -10.000
 R.D.F.L.R .000
 ELEVON .000
 .000

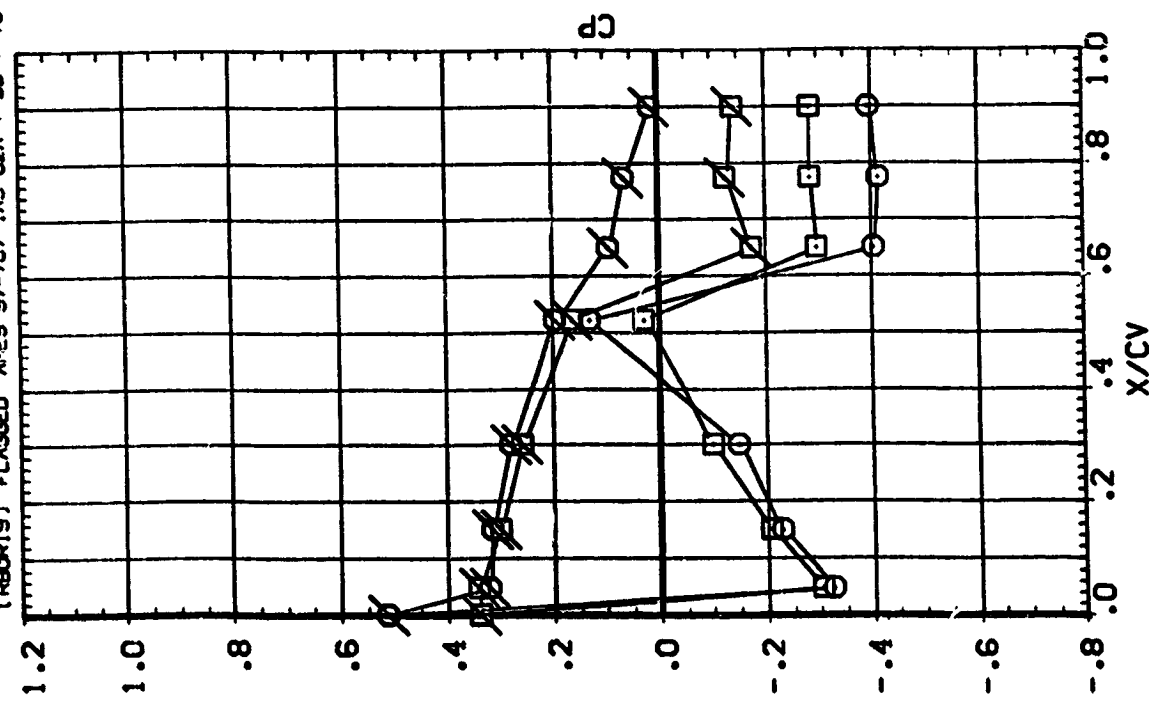
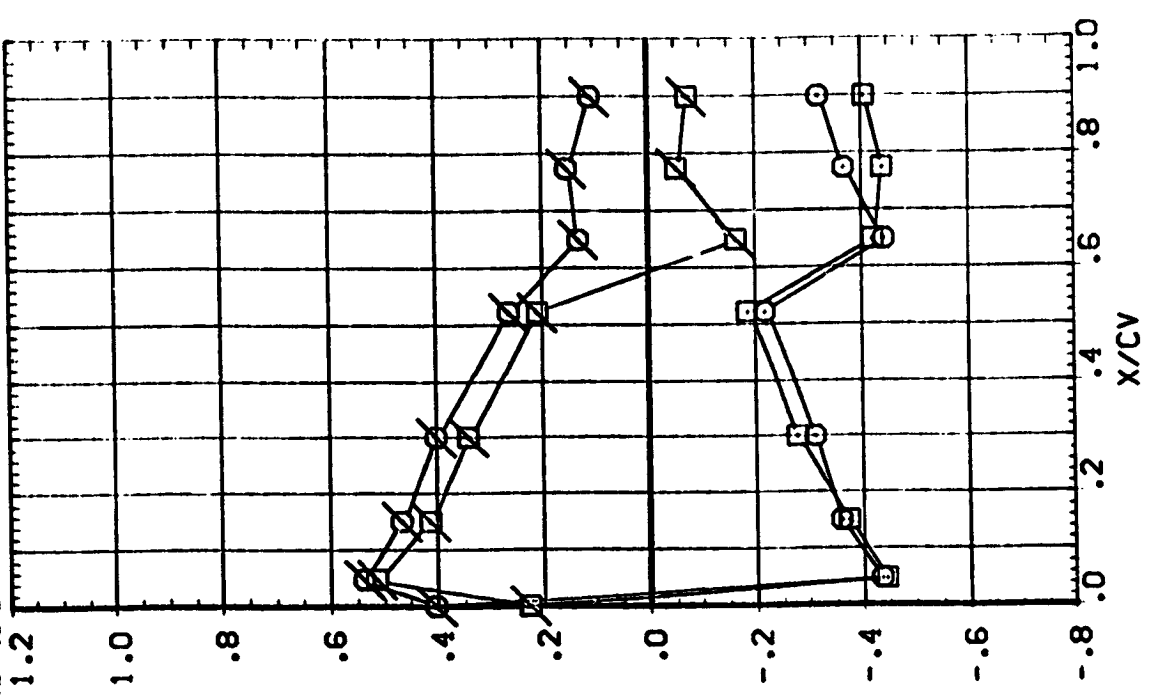


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

ALPHAT .000 ORBINC .000
 RUDDER -10.000 ELEVON .000
 RUJFLR .000

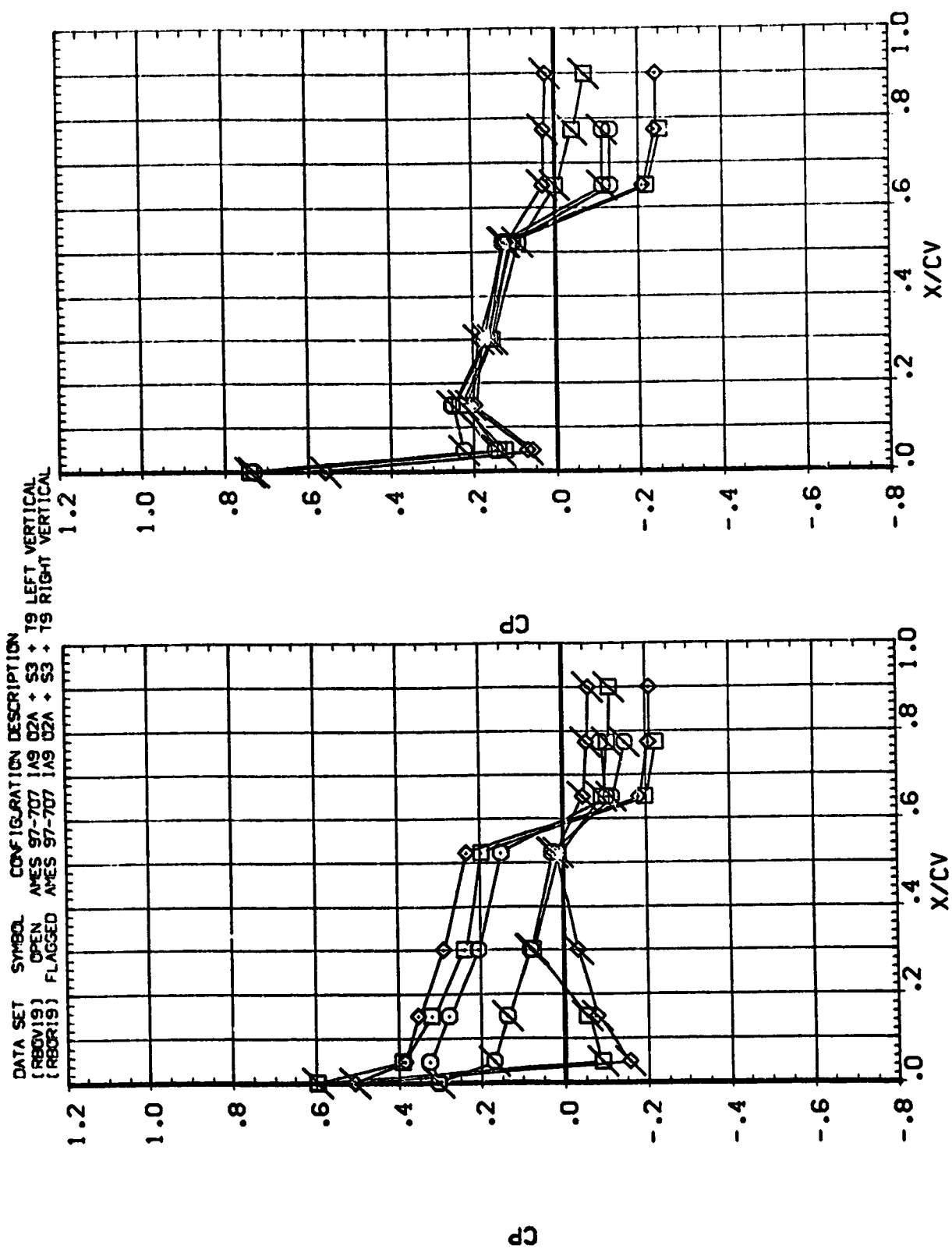
SYMBOL 2/BLV .840 3.950 1.555
 1/BLV .925 8.040

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (REOV19) OPEN APES 97-707 1A9 02A + S3 + 19 LEFT VERTICAL
 (REOR19) FLAGGED APES 97-707 1A9 02A + S3 + 19 RIGHT VERTICAL



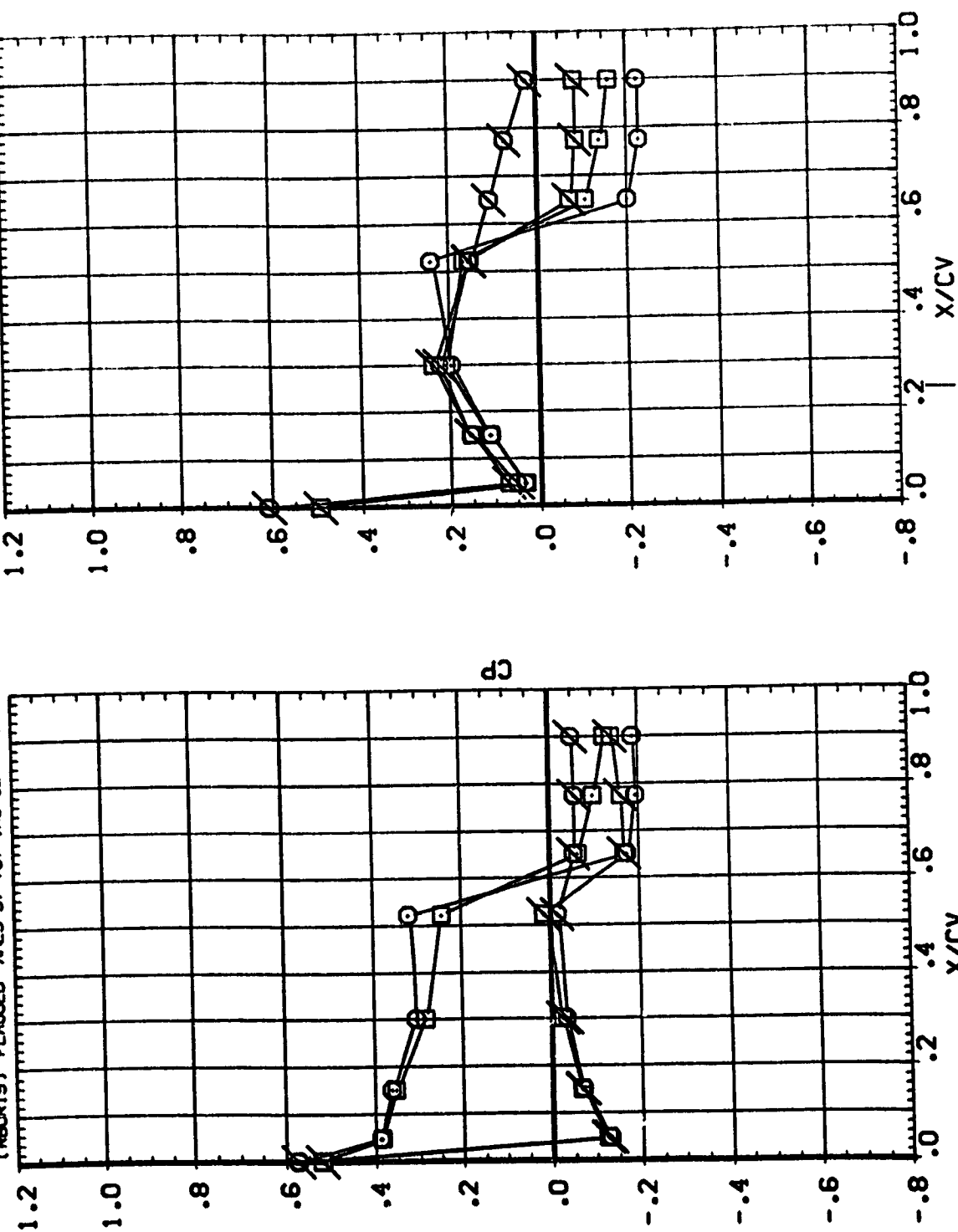
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL Z/BV BETAT MACH
 .158
 .316
 .600
 -4.220 2.000
 -.140
 DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBOV19) OPEN AMES 97-707 IAS 02A + S3 + T9 LEFT VERTICAL
 (RBOV19) FLAGGED AMES 97-707 IAS 02A + S3 + T9 RIGHT VERTICAL
 ALPHAT .000 ORBITAL .000
 RUDDER -10.000 ELEVON .000
 RUDDER .000



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

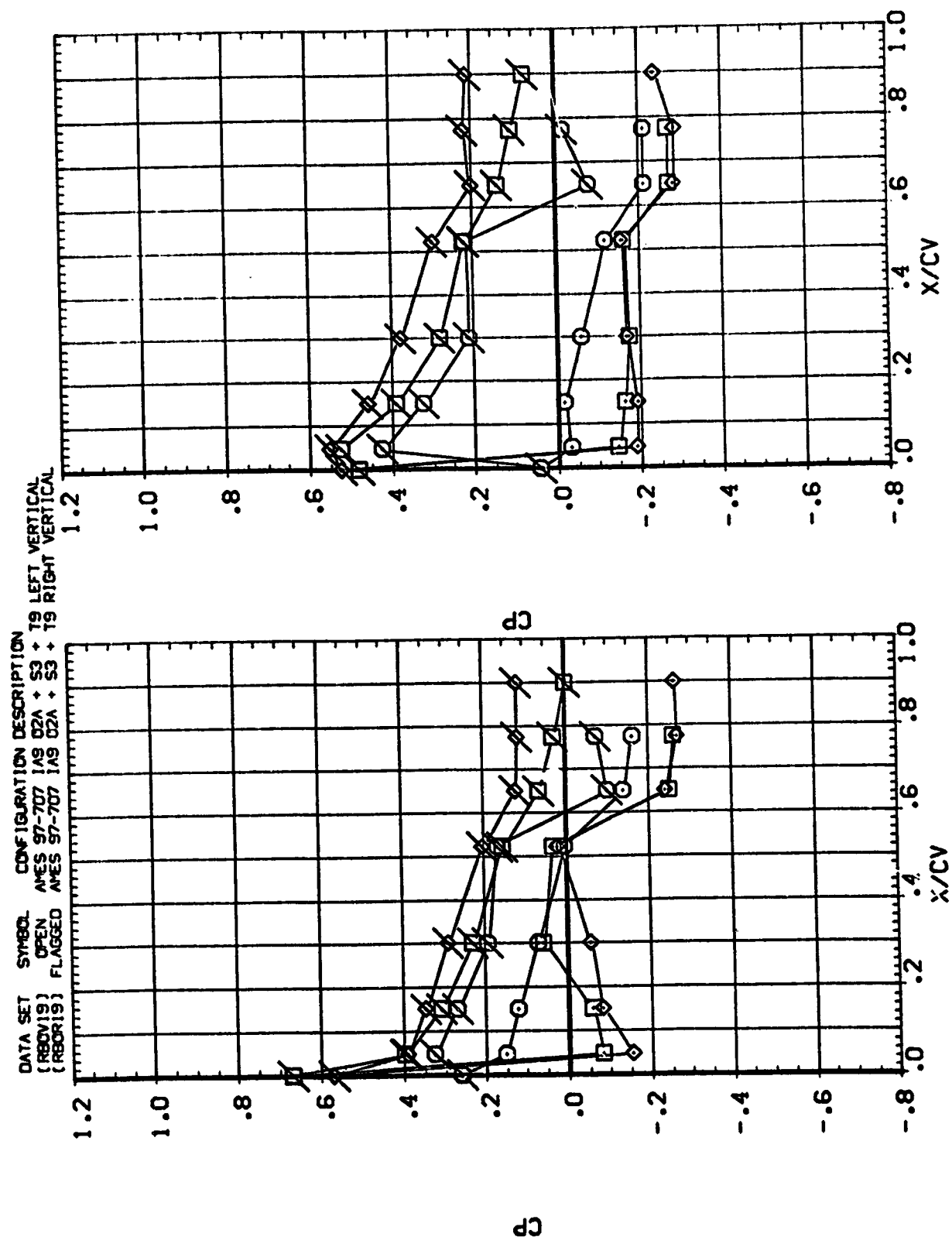
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBDV19) OPEN AVES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
 (RBDV19) FLAGGED AVES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

ALPHA	.000	ORBITAL	.000
RUDDER	-10.000	ELEVON	.000
RJCLR	.000		

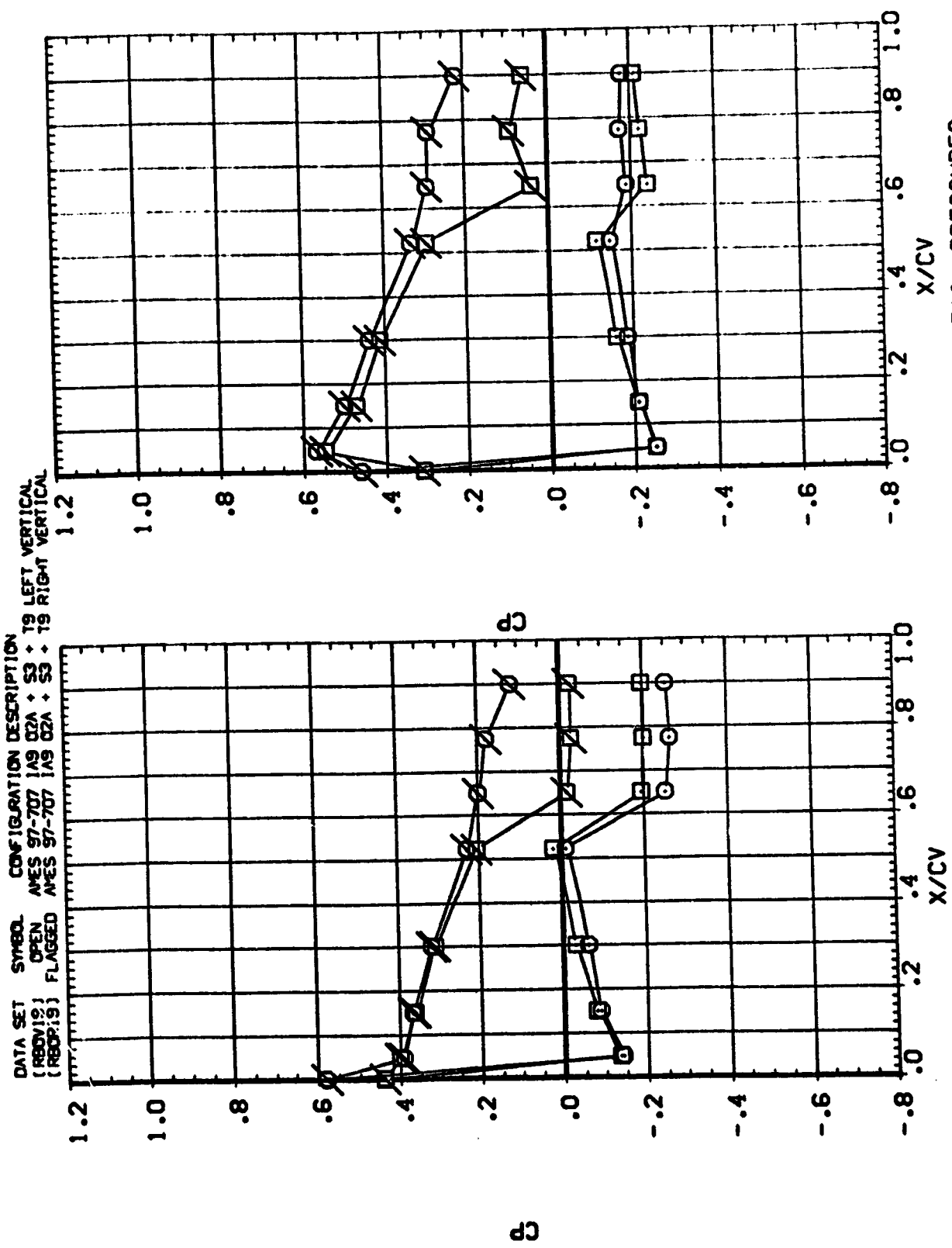


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL Z/BV BETAT MACH
 .940 3.930 2.000
 .925 8.020

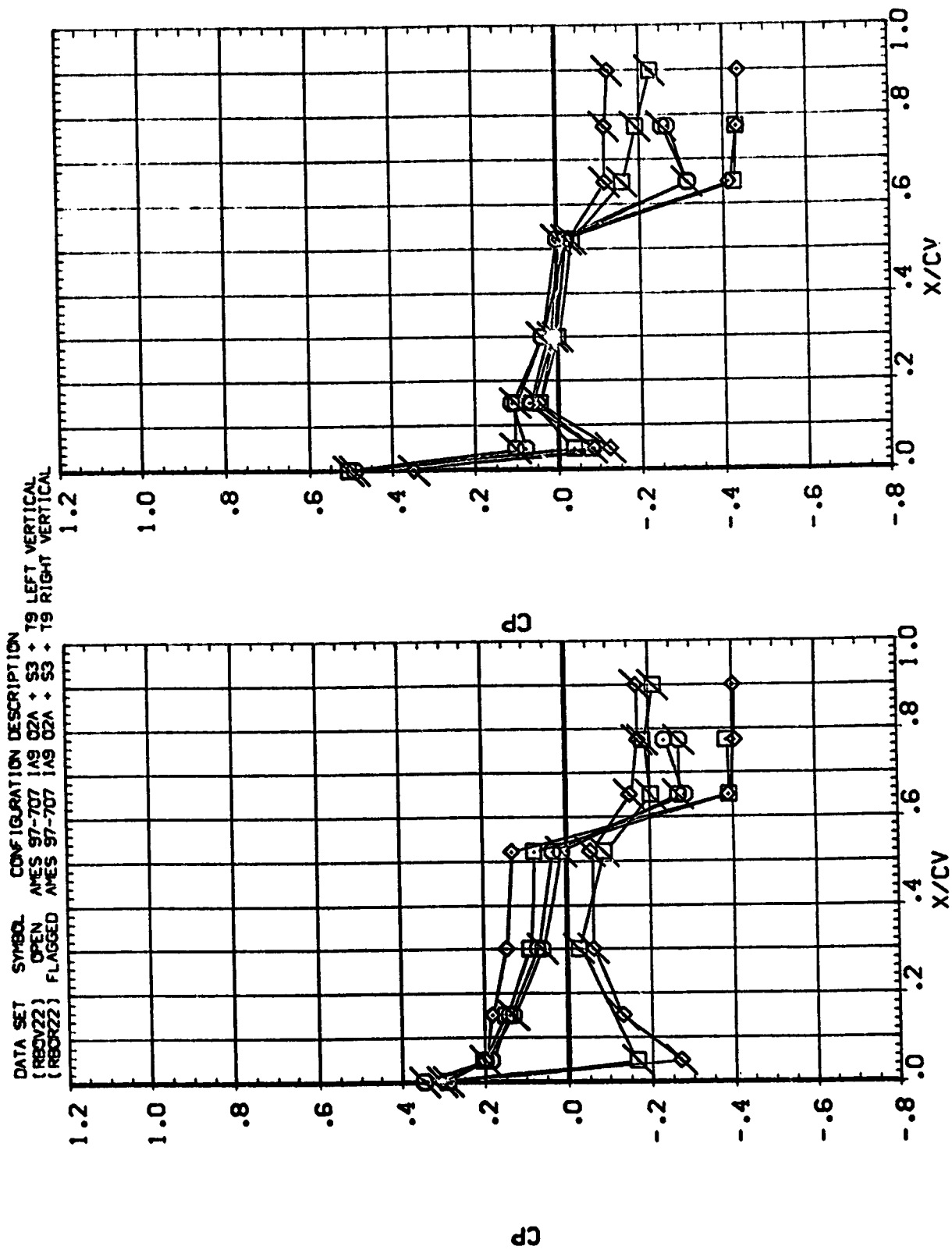
ALPHAT .000
 RUDDER -10.000
 RUOFLR .000

ORBINC .000
 ELEVON .000



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL Z/BV BETAT MACH PARAMETRIC VALUES
 ○ .158 -4.230 1.555 ALPHAT 8.000 0.000
 □ .316 -.110 RUDDER -10.000 0.000
 ◇ .600 RUDFLR .000 .000



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

111000
-1110

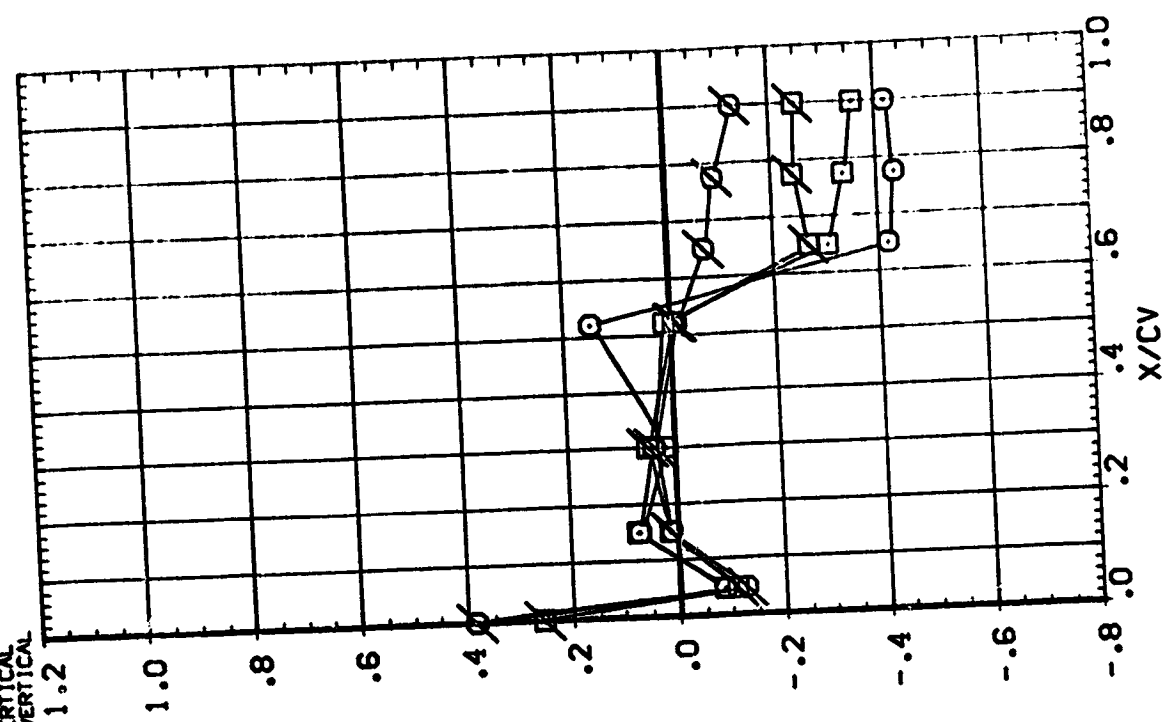
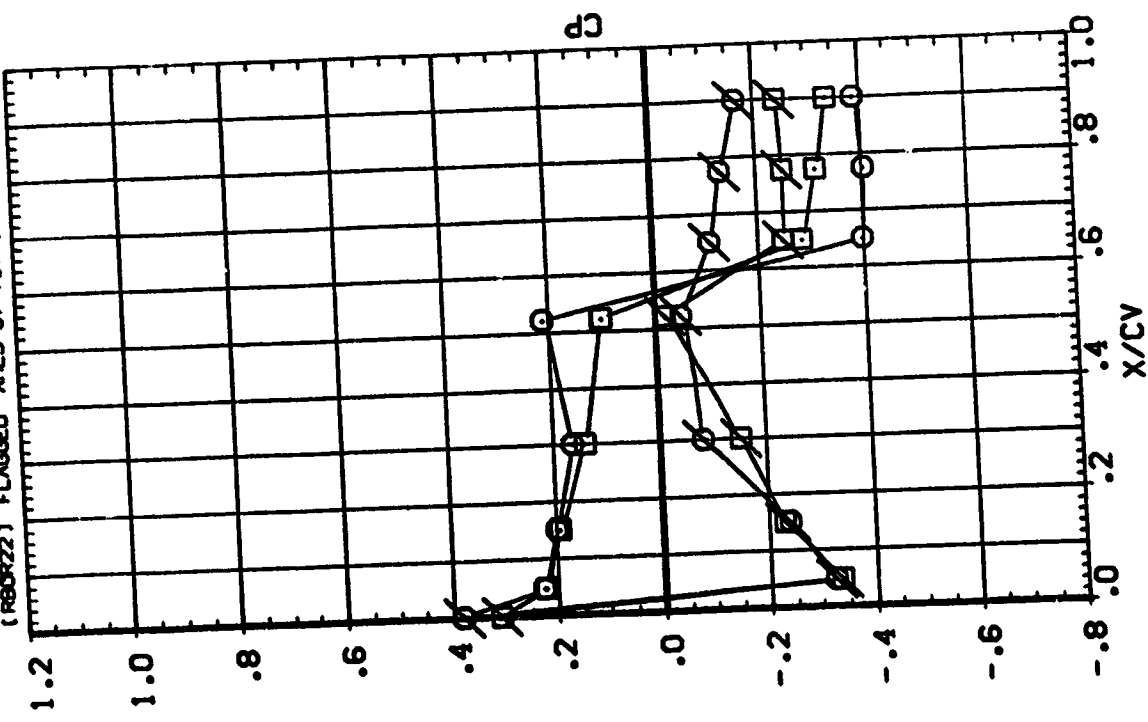
0.975

0.000

0.000

0.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBDV22) OPEN AVES 97-707 IAG O2A + S3 + T9 LEFT VERTICAL
 (RBDV22) FLAGGED AVES 97-707 IAG O2A + S3 + T9 RIGHT VERTICAL



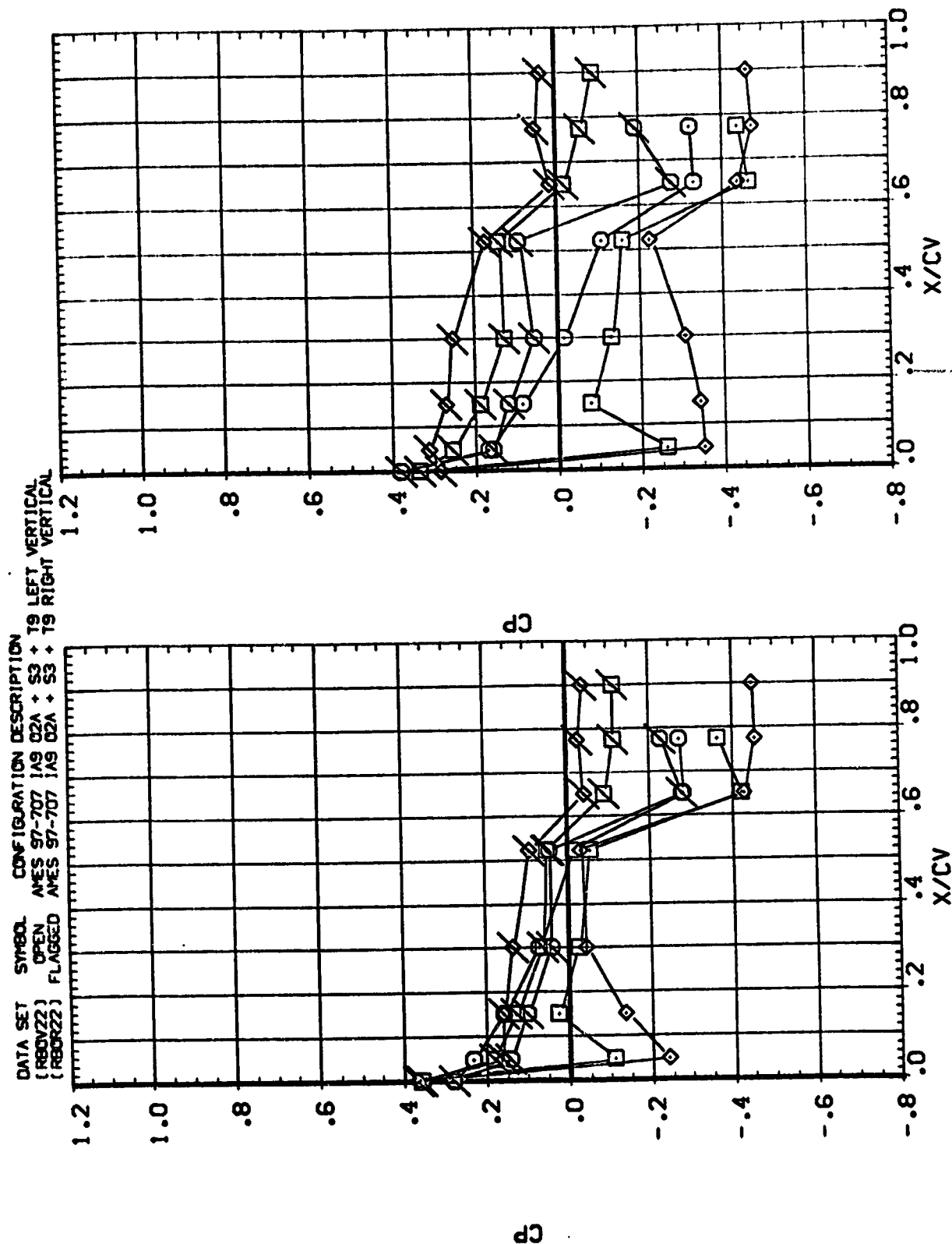
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL
 .158
 .316
 .600

BETAT
 3.940
 8.120

MACH
 1.555

PARAMETRIC VALUES
 ALPHAT 8.000
 RUDDER -10.000
 RUFLR .000
 ORBINC .000
 ELEVON .000

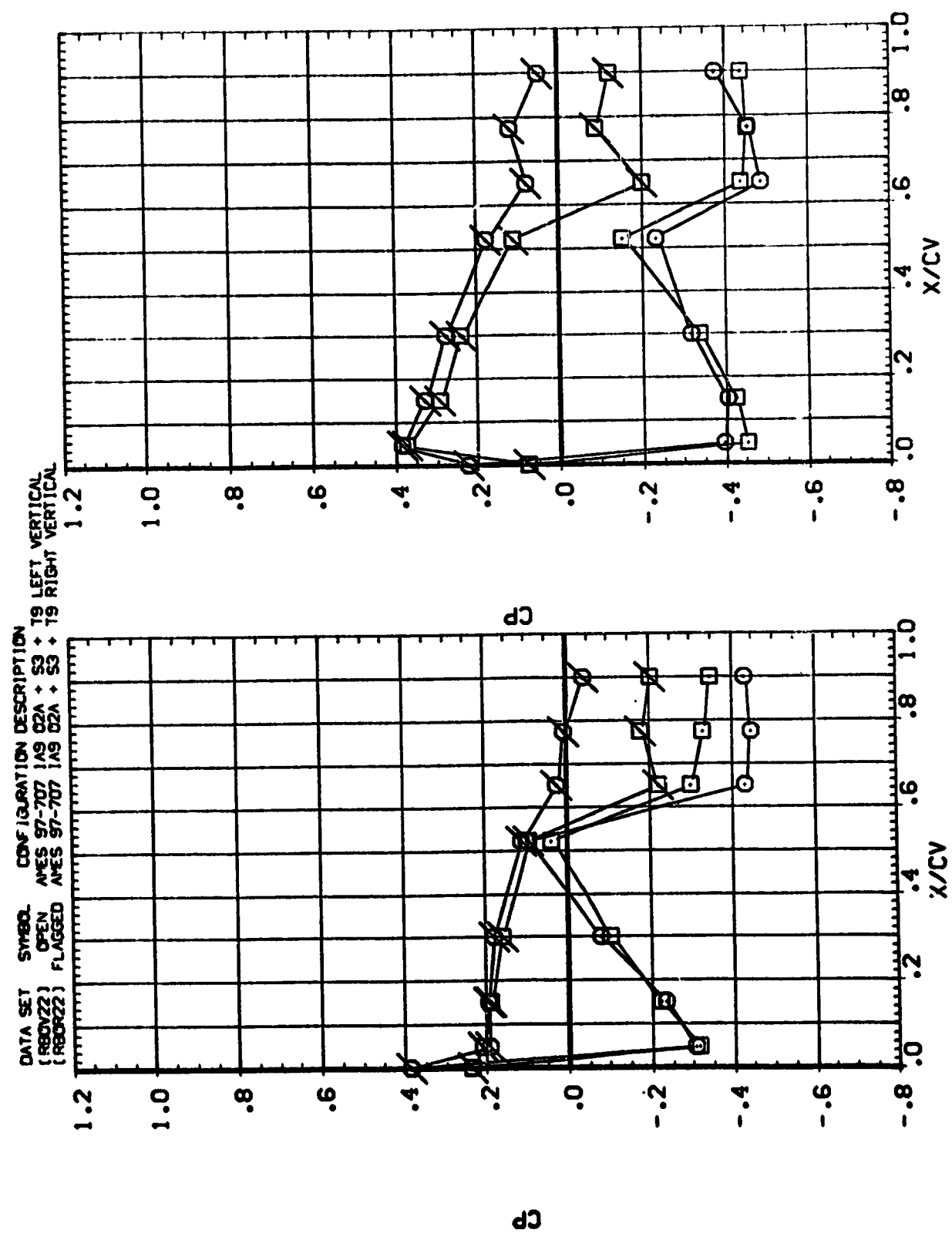


PARAMETRIC VALUES

ALPHAT	8.000	ORBNIC	.000
RJODER	-10.000	ELEVON	.000
RJOFIR	.000		

SYMBOL

Z/BV	BETAT	MACH
.840	3.940	1.555
.925	8.120	



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

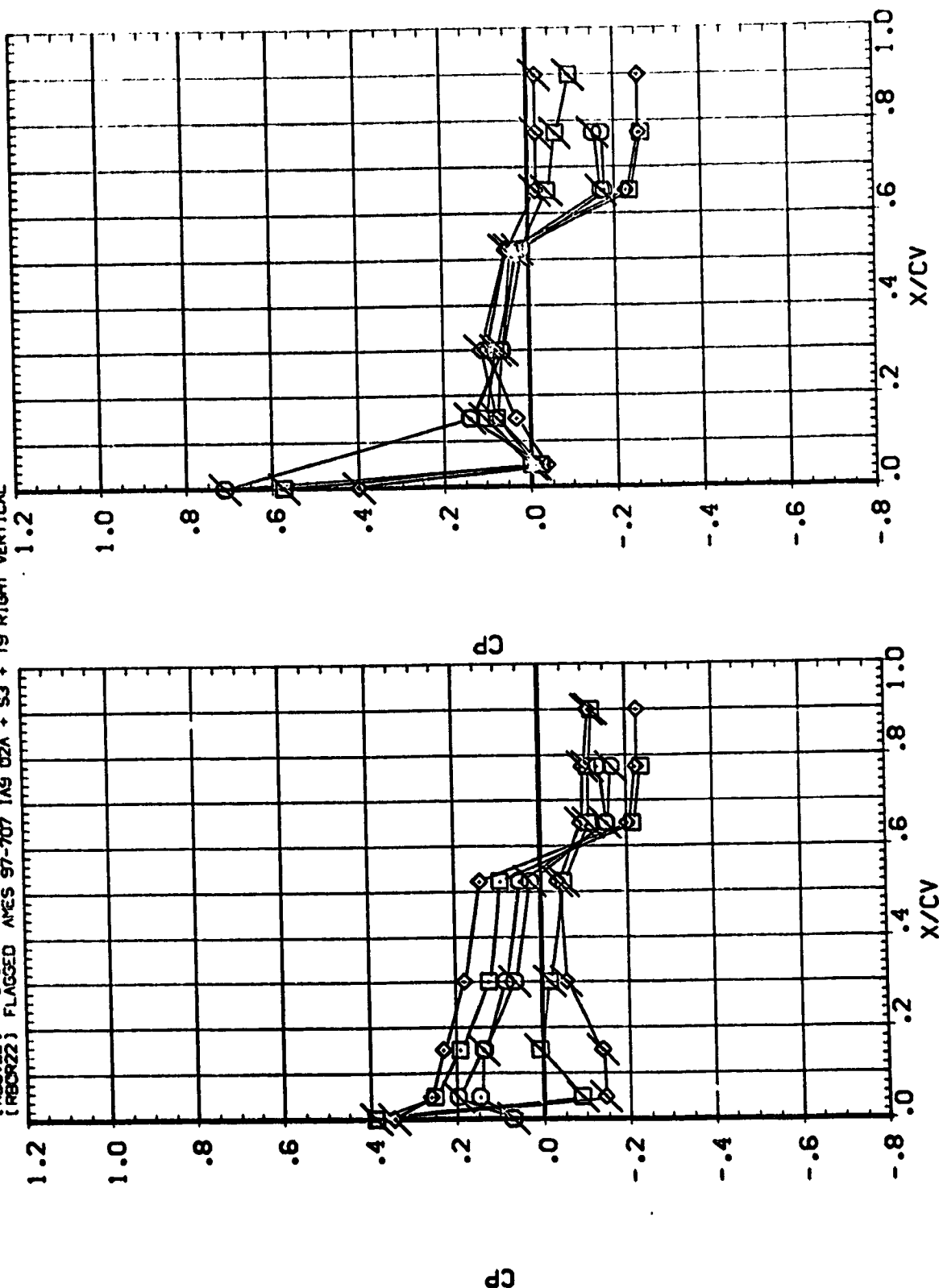
SYMBOL Z/BV .158 .316 .600

BETAT -4.220 -.110

MACH 2.000

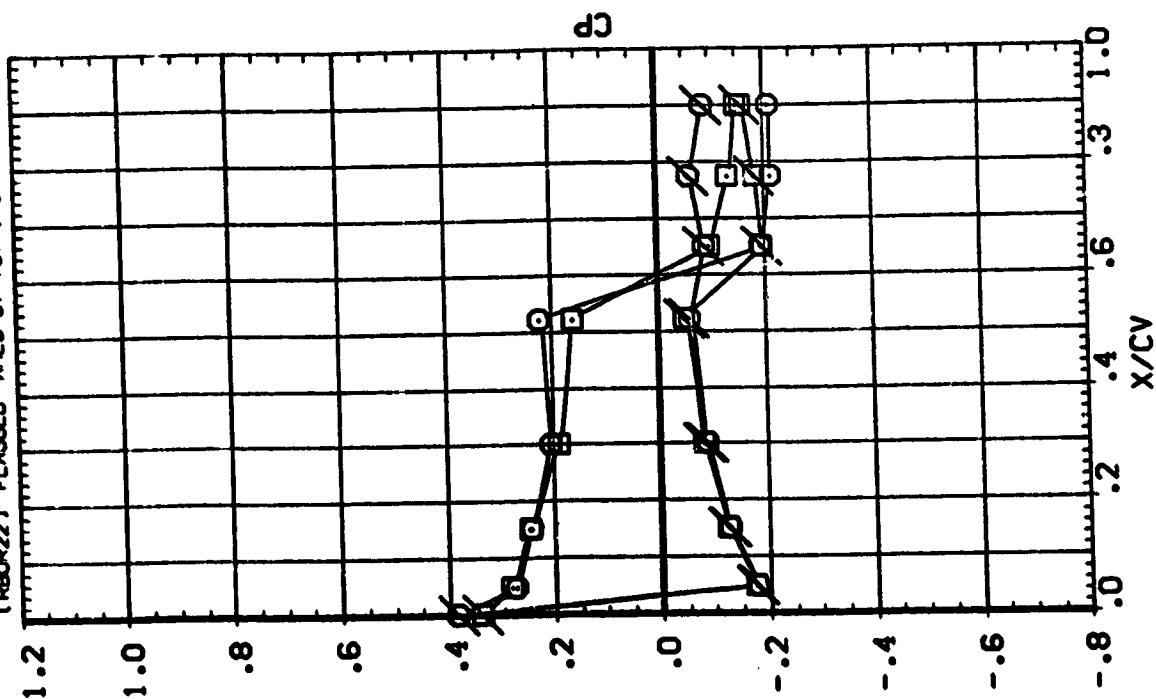
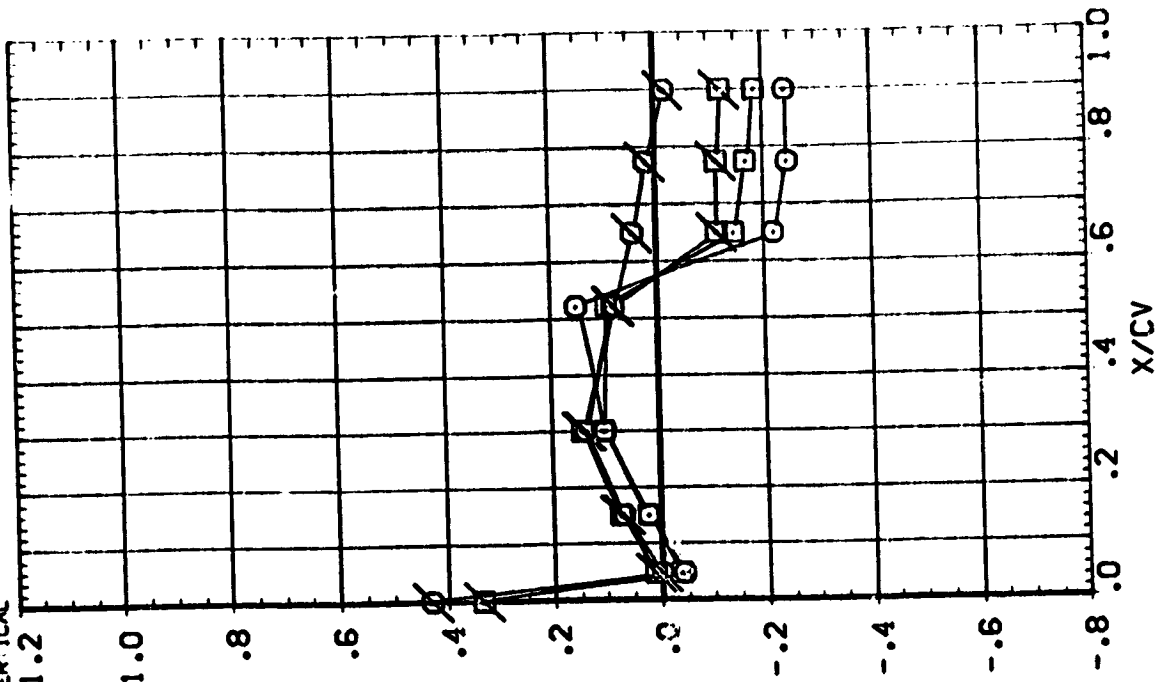
PARAMETRIC VALUES
ALPHAT 8.000
RUDDER -10.000
RUDFLR .000
ORBIN .000
ELEVEN .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(RBDV22) OPEN ANES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RBDV22) FLAGGED ANES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBDV22) OPEN AMES 97-707 1A9 02A * S3 * T9 LEFT VERTICAL
 (RBDV22) FLAGGED AMES 97-707 1A9 02A * S3 * T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

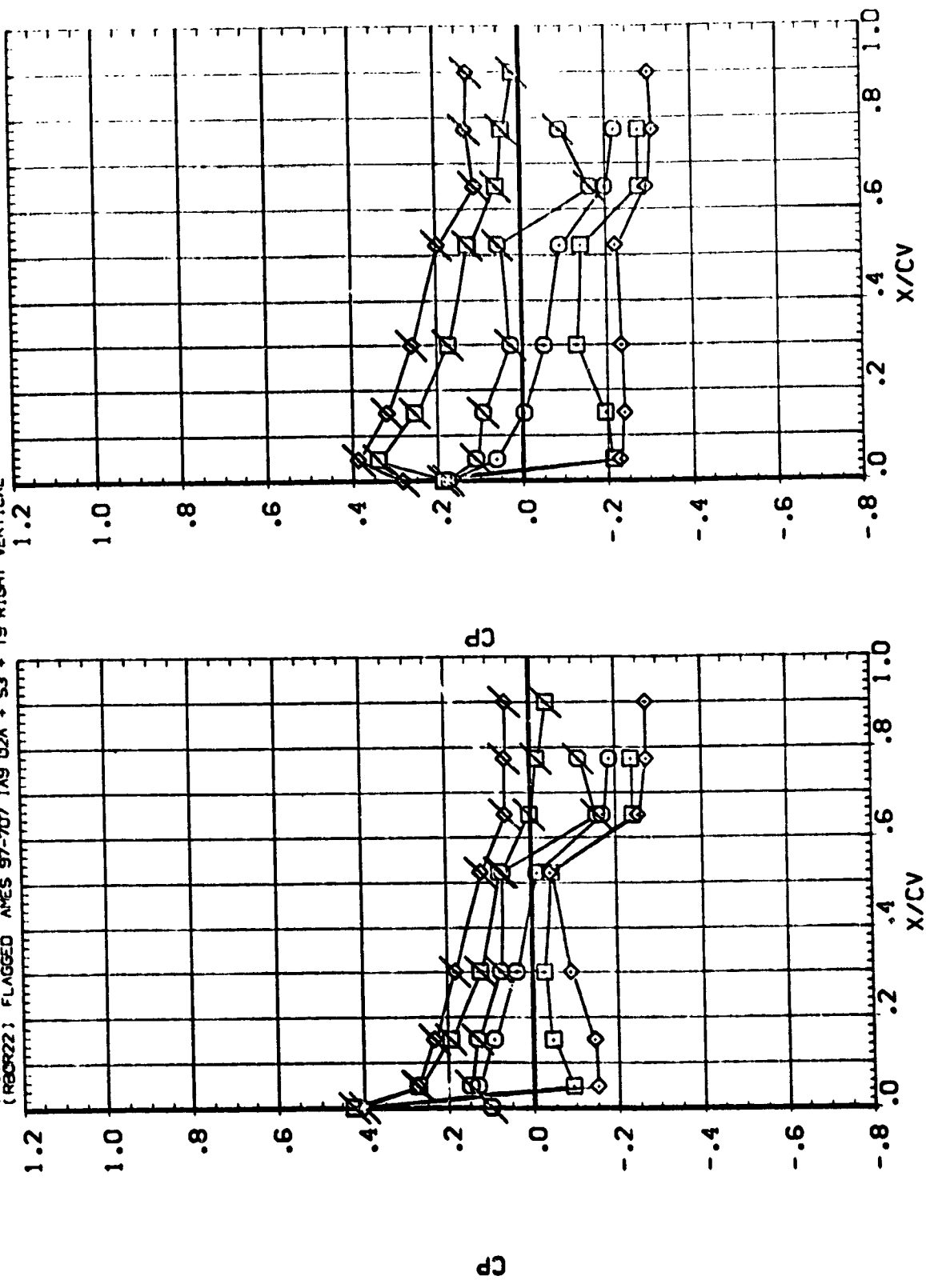
PARAMETRIC VALUES

ALPHAT	8.000	DEB:NC	.000
RUDDER	-10.000	ELEV:CN	.000
RUOFLR	.000		

SYMBOL

Z/BV	BETAT	MACH
.158	4.000	2.000
.316	8.110	
.600		

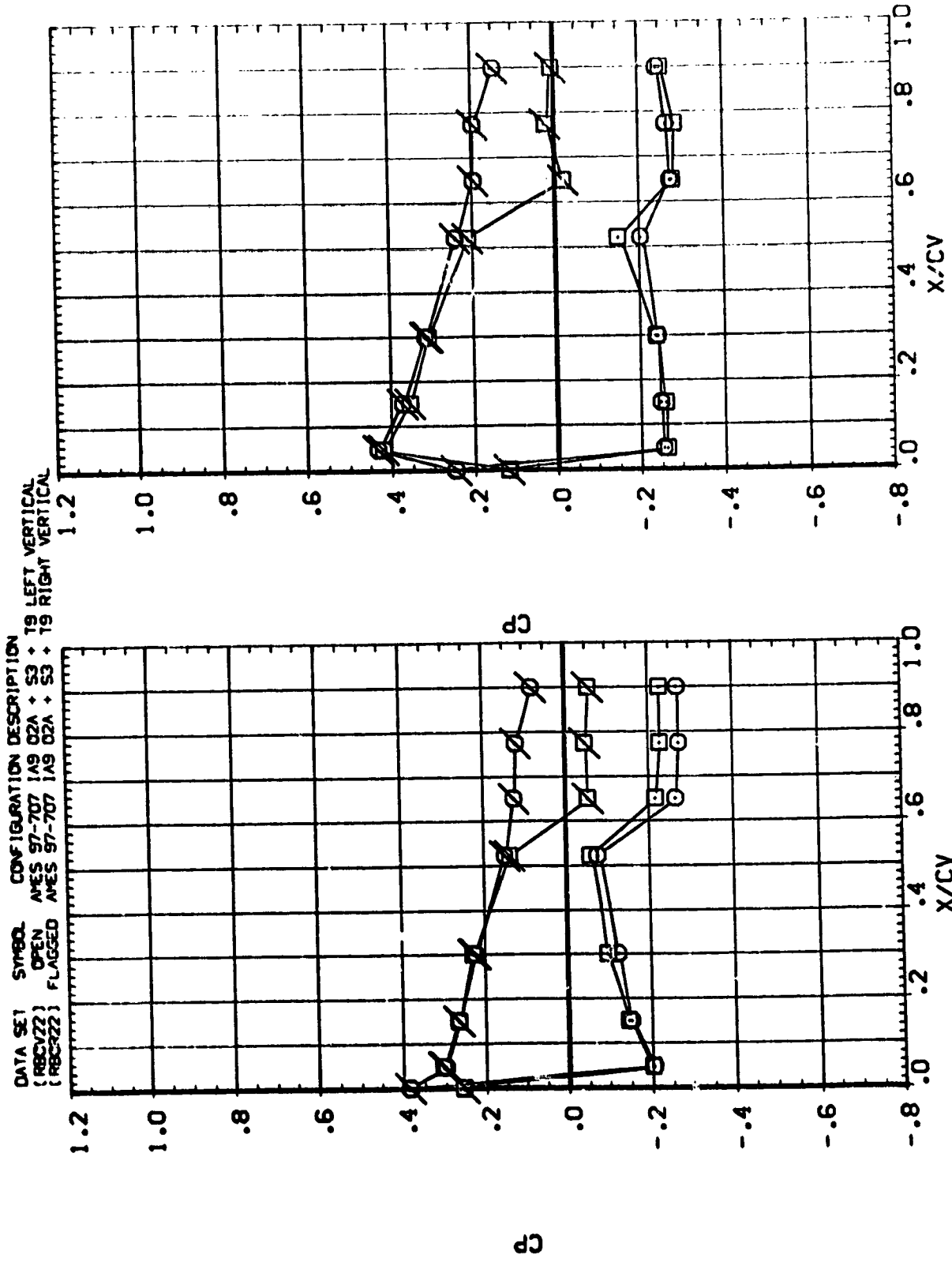
DATA S/T SYMBOL CONFIGURATION DESCRIPTION
 (RBDV22) OPEN AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
 (RBDV22) FLAGGED AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL Z/BV BETAT MACH
 0 .940 4.000 2.000
 1 .975 8.110

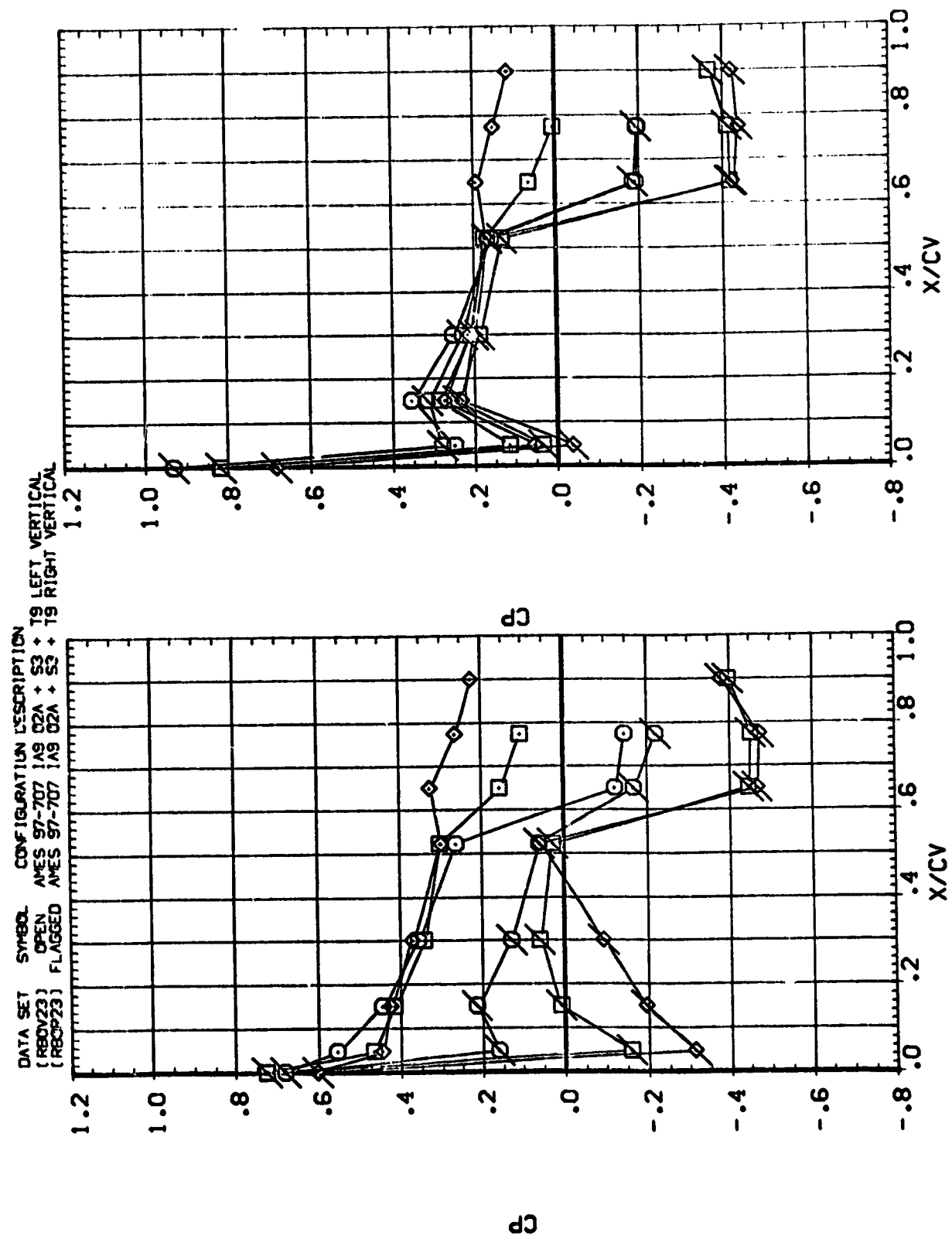
ALPHAT 8.000 DB'VC
 RUDDER -10.000 ELEVEN
 RUDDLR .000



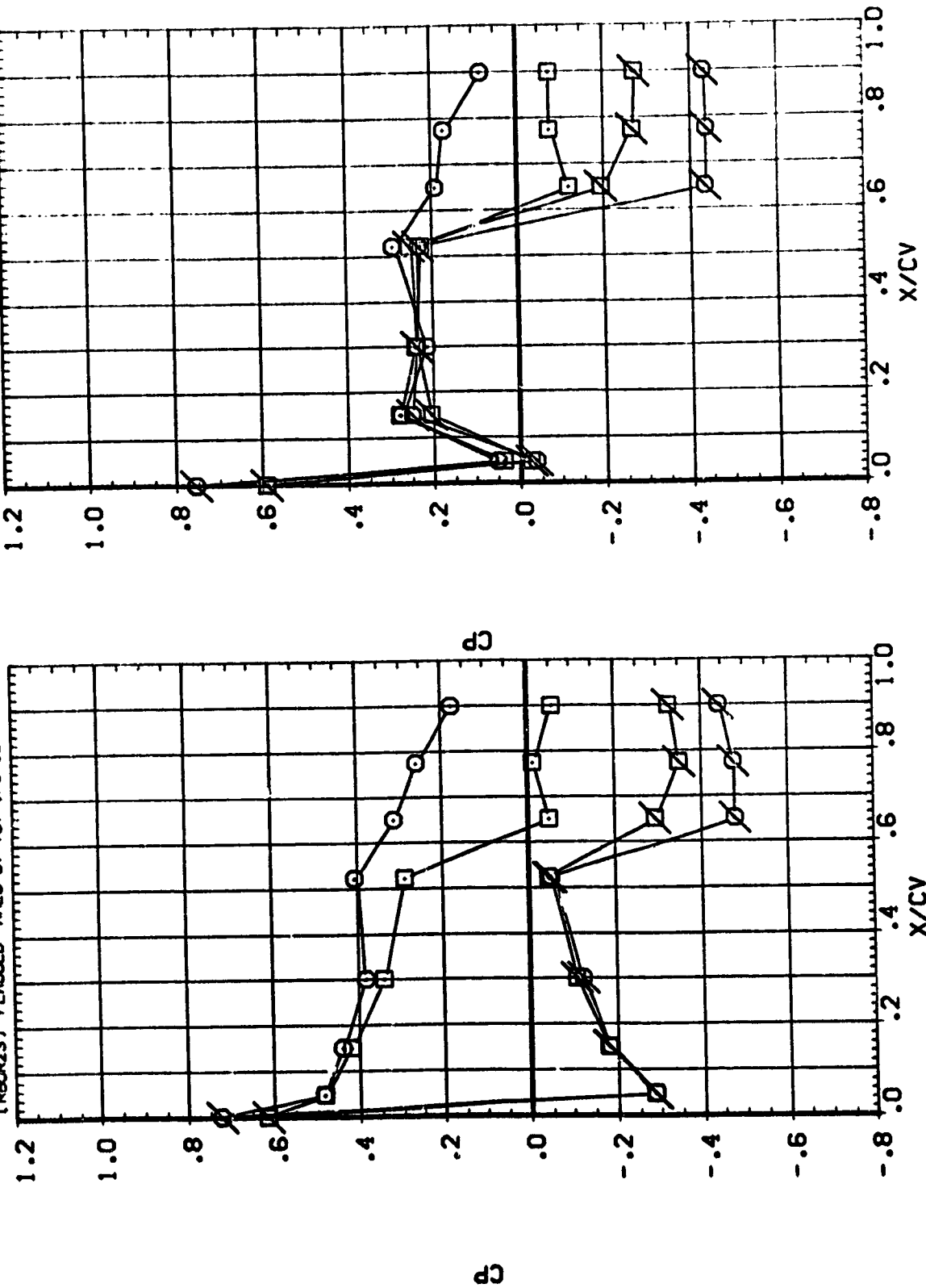
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES
 ALPHAT -8.000
 RUDDER 15.000
 RUOFLR .000

SYMBOL Z/BV BETAT MACH
 O .158 -1.280 1.555
 □ .316 -.170
 ◇ .600



DATA SET SYMBOL CONFIGURATION DESCRIPTION
(RBCV23) OPEN AMES 97-707 IAG O2A + S3 + T9 LEFT VERTICAL
(RBCR23) FLAGGED AMES 97-707 IAG O2A + S3 + T9 RIGHT VERTICAL



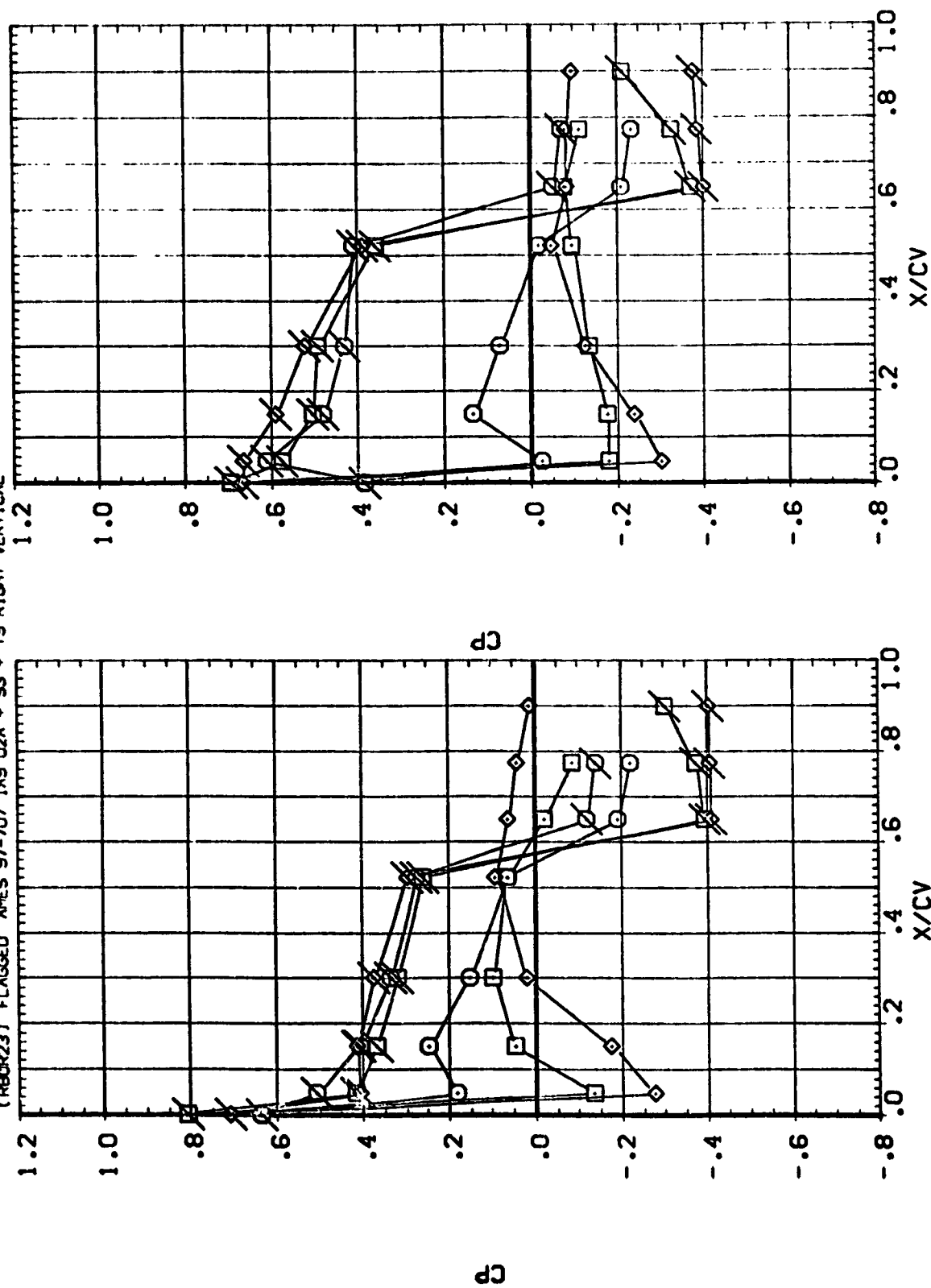
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

RUDDER
RUDDER
ELEVON
ELEVON
ELEVON
ELEVON

1.000
1.000
1.000
1.000
1.000
1.000

1.000
1.000
1.000
1.000
1.000
1.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(RBOV23) OPEN AMES 97-707 IAS 02A + S3 + 19 LEFT VERTICAL
(RBOV23) FLAGGED AMES 97-707 IAS 02A + S3 + 19 RIGHT VERTICAL

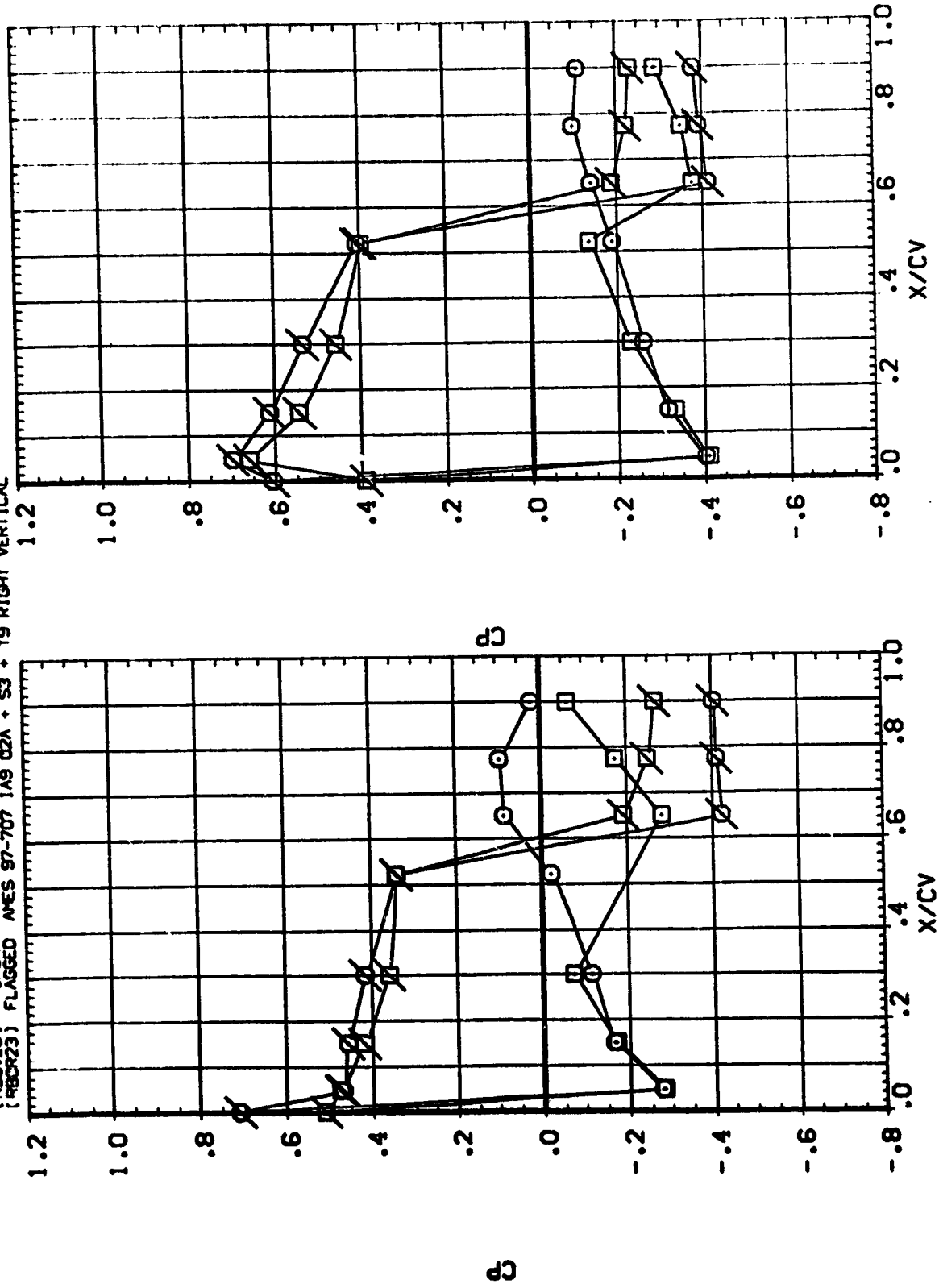


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

ALPHAL 0.000
RUDDER 15.000
RUOFLR .000

DATA SET 3.940 1.555
[RBDV23] OPEN
[RBDV23] FLAGGED

CONFIGURATION DESCRIPTION
AVES 97-707 IAG OZA + S3 + T9 LEFT VERTICAL
AVES 97-707 IAG OZA + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

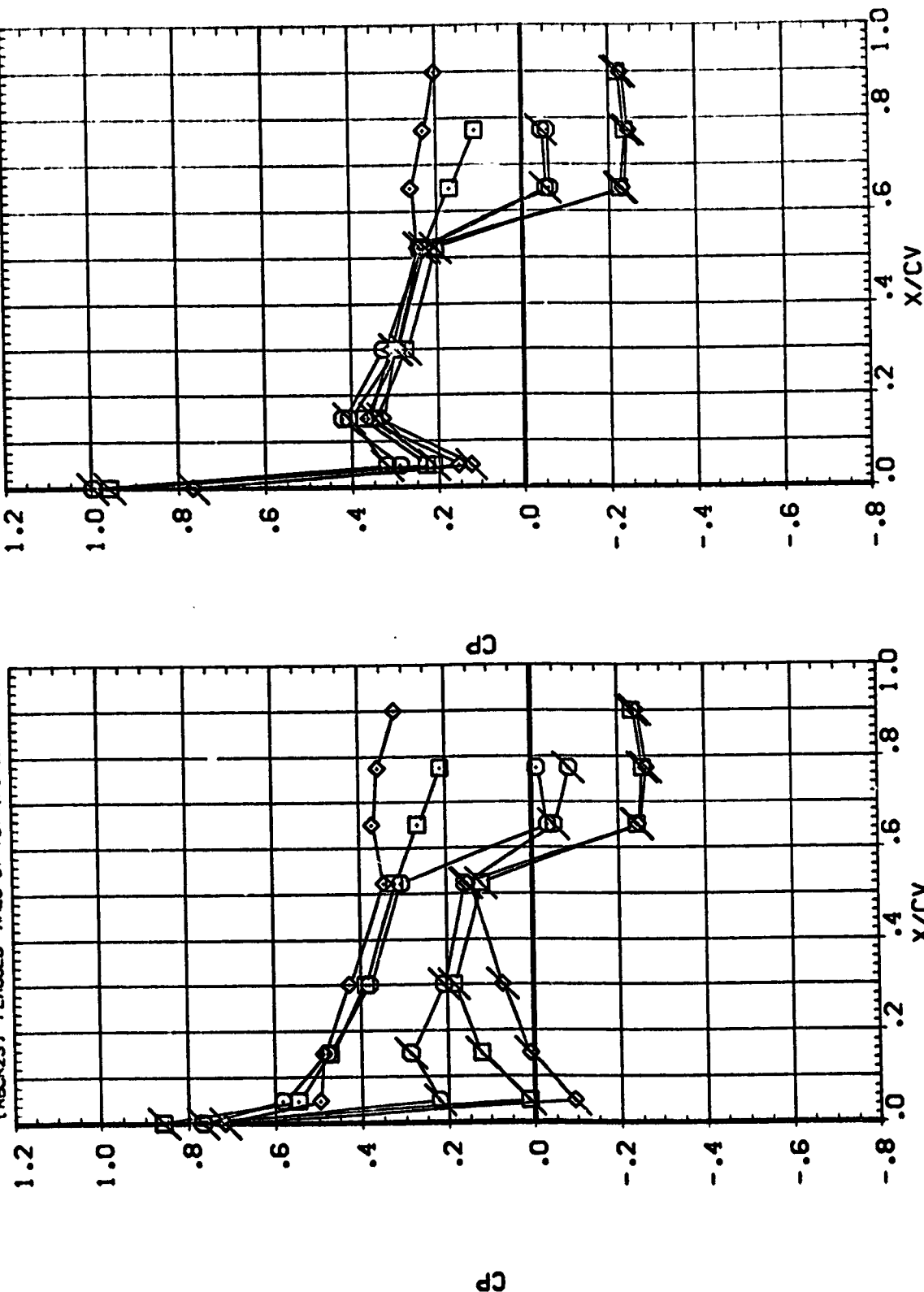
ALPHAT	-8.000	CRG:NC	.000
RUDDER	15.000	ELEVON	.000
RUOFLR	.000		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RBOV23)	OPEN	AMES 97-707 1A9 C2A + S3 + T9 LEFT VERTICAL
(RBCV23)	FLAGGED	AMES 97-707 1A9 C2A + S3 + T9 RIGHT VERTICAL

SYMBOL

2/BV	BETAT	MACH
.158	-4.280	2.000
.316	-.170	
.600		



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

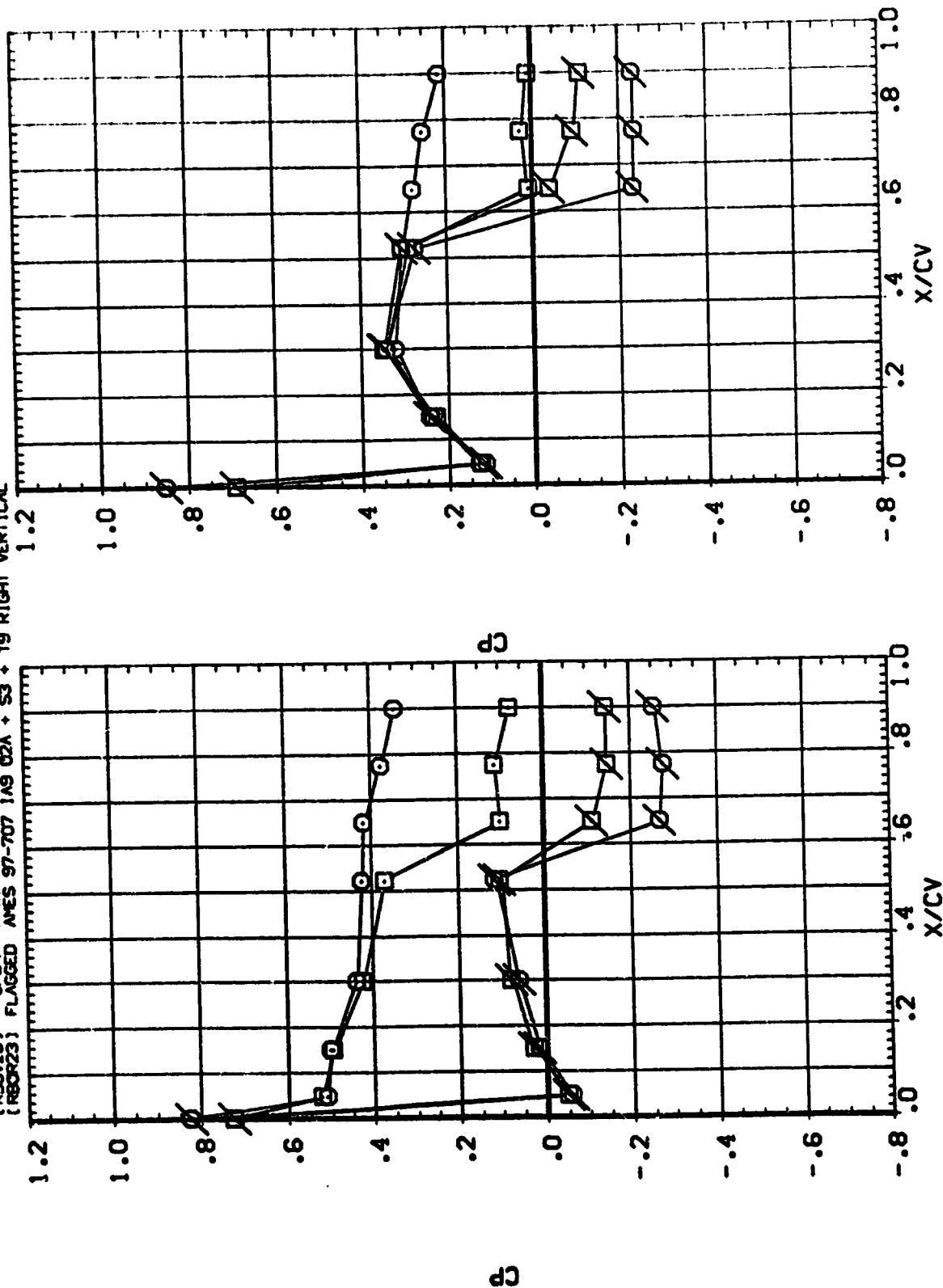
ALPHAT	-8.000	ORBIN	.000
RUDDER	15.000	ELEV	.000
RUOFLR			

SYMBOL Z/8V BETAT MACH

○	.840	-4.280	2.000
□	.925	-.170	

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(REOV23)	OPEN	AVES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
(REOV23)	FLAGGED	AVES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



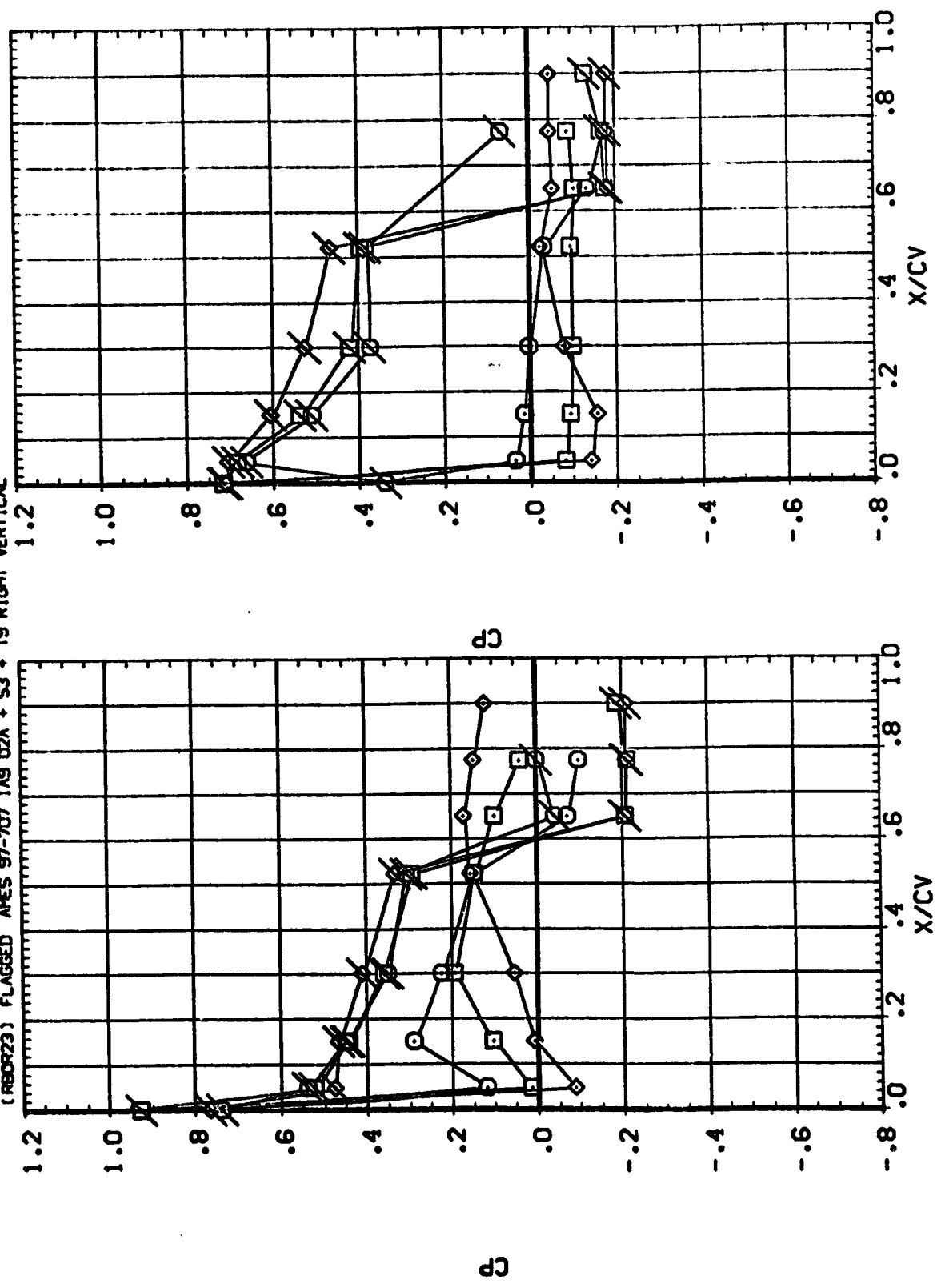
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES
 -8.000 CRBINC .000
 15.000 ELEVEN .000

ALPHAT
 RUDDER
 RUOFLR

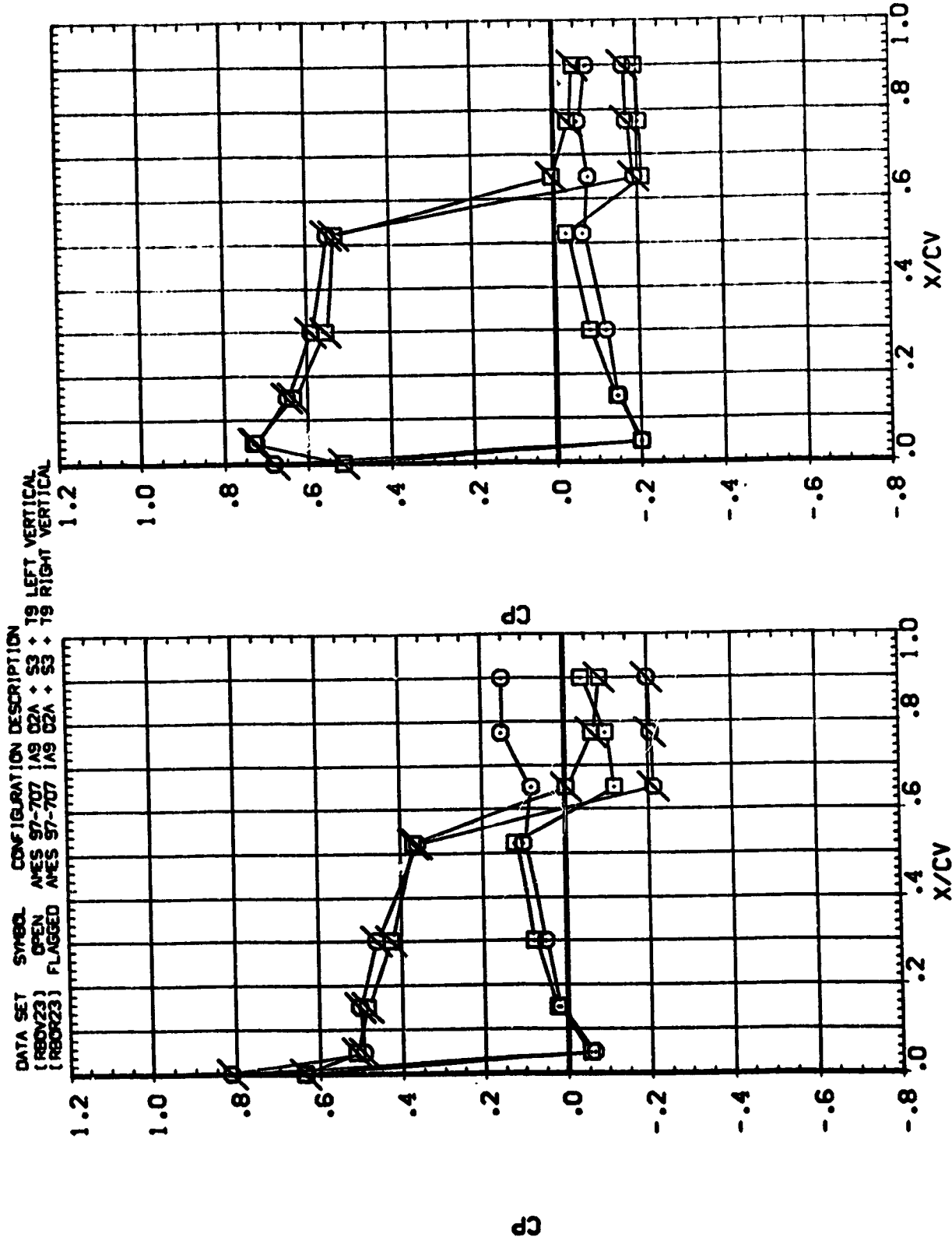
SYMBOL Z/BV BETAT MACH
 .158 3.930 2.000
 .316 8.040
 .600

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBOV23) OPEN ANES 97-707 1A9 02A + S3 + 19 LEFT VERTICAL
 (RBOV23) FLAGGED ANES 97-707 1A9 02A + S3 + 19 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

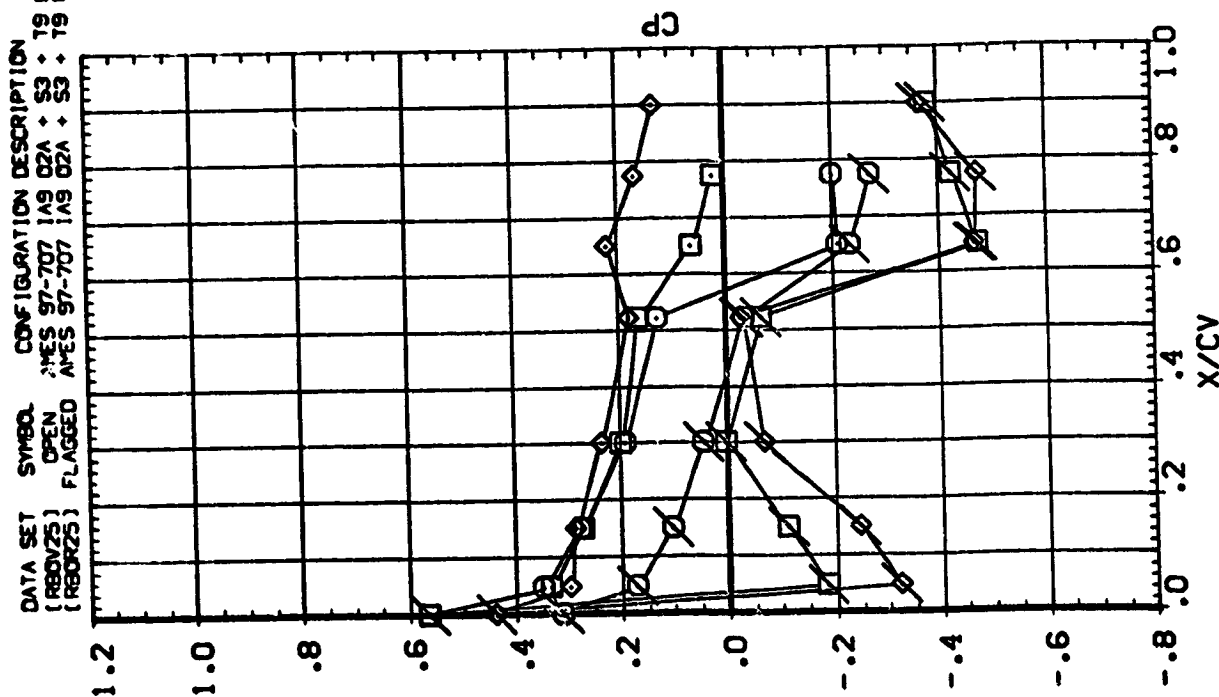
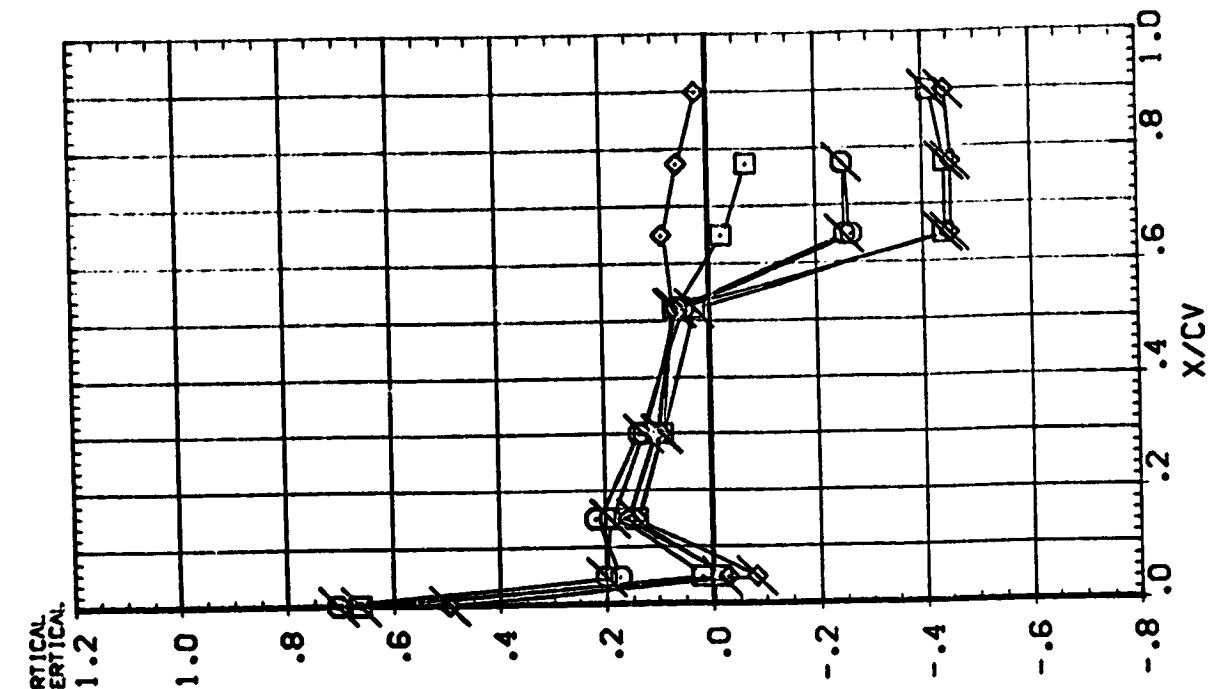
SYMBOL Z/\bar{b} BETAT MACH
 .840 3.930 2.000
 .925 8.040
 PARAMETRIC VALUES
 ALPHAT -8.000
 RUDDER 15.000
 RLOFLR .000
 CRBINC .000
 ELEVON .000



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

ALPHAT	.000	ORBNIC	.000
RUDDER	.000	ELEVEN	.000
RUOFLR	.000		



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

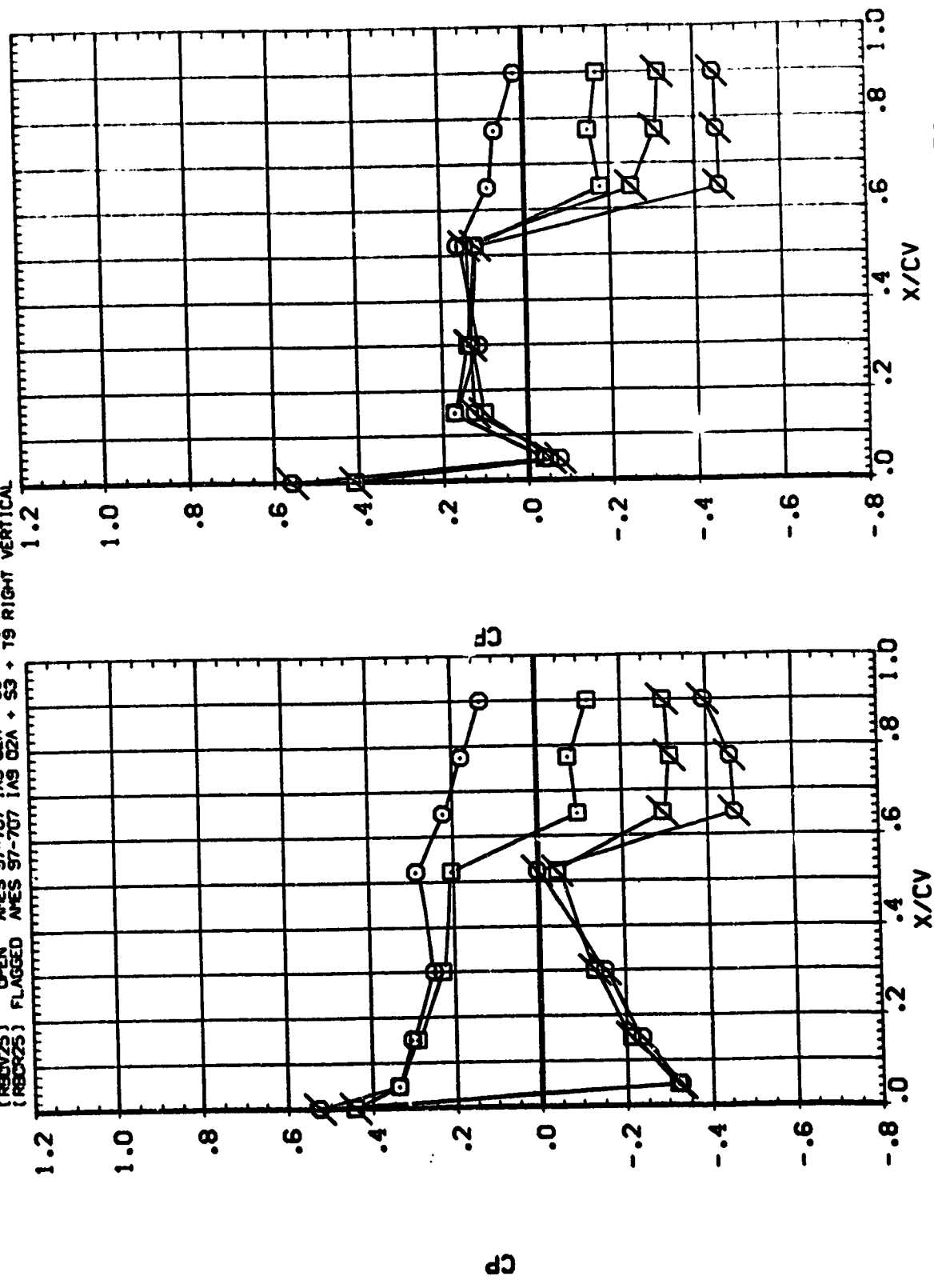
PARAMETRIC VALUES
 .000 .000 .000
 .000 .000 .000
 15.000 ELEVGN
 .000

ALPHAT
 RUDDER
 RUOFLR

BETAT MACH
 -4.240 1.555
 -.130

SYMBOL Z/BV
 .940
 .925

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBDV25) OPEN AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
 (RBDV25) FLAGGED AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL

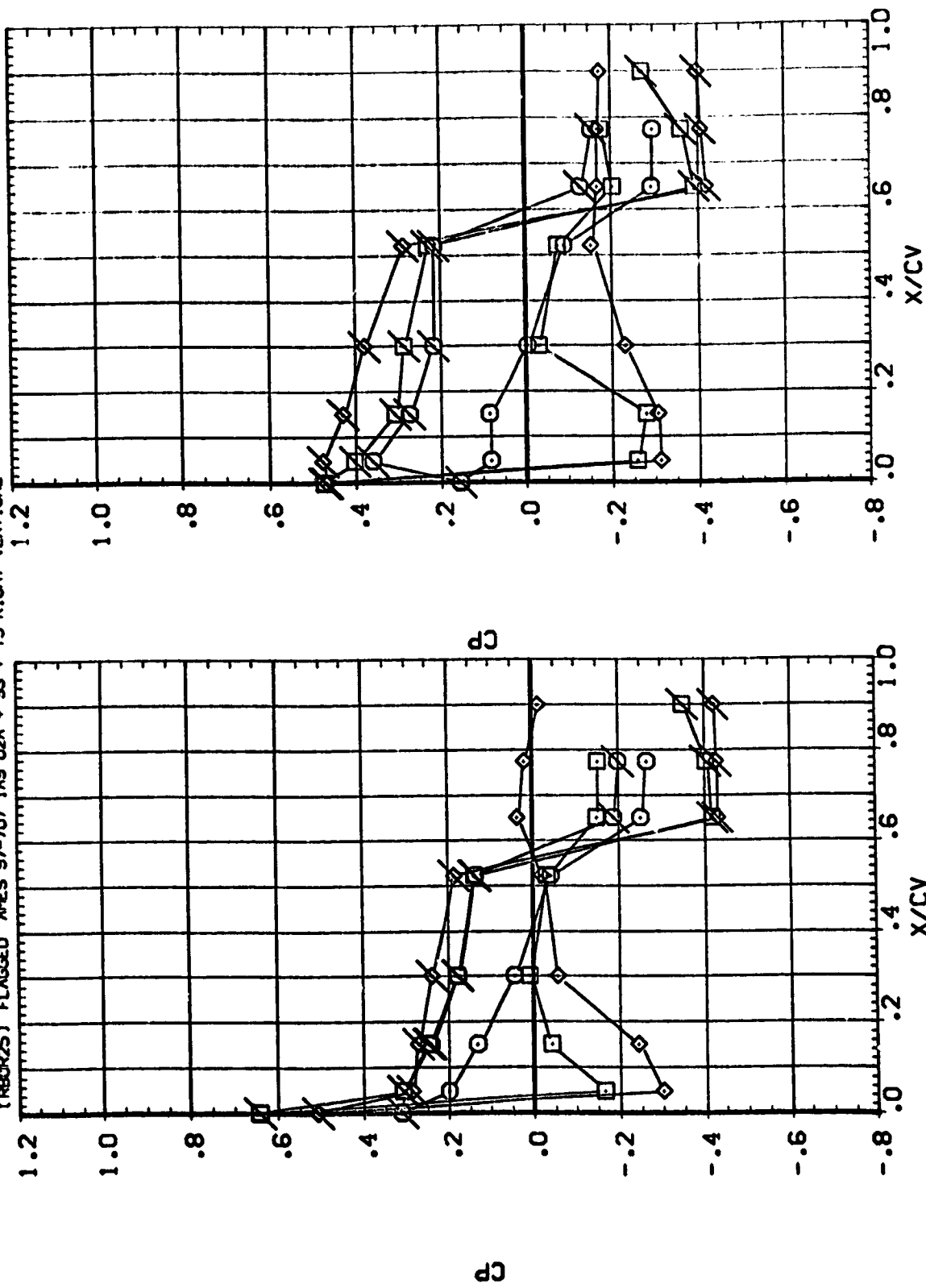


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL Z/BV BETAT MACH
 O .158 3.950 1.555
 □ .316 8.040
 ◇ .600

PARAMETRIC VALUES
 ALPHAT .000 ORBINC .000
 RUDDER 15.000 ELEVON .000
 RUOFLR .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBOVZS) OPEN ANES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
 (RBOVZS) FLAGGED ANES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



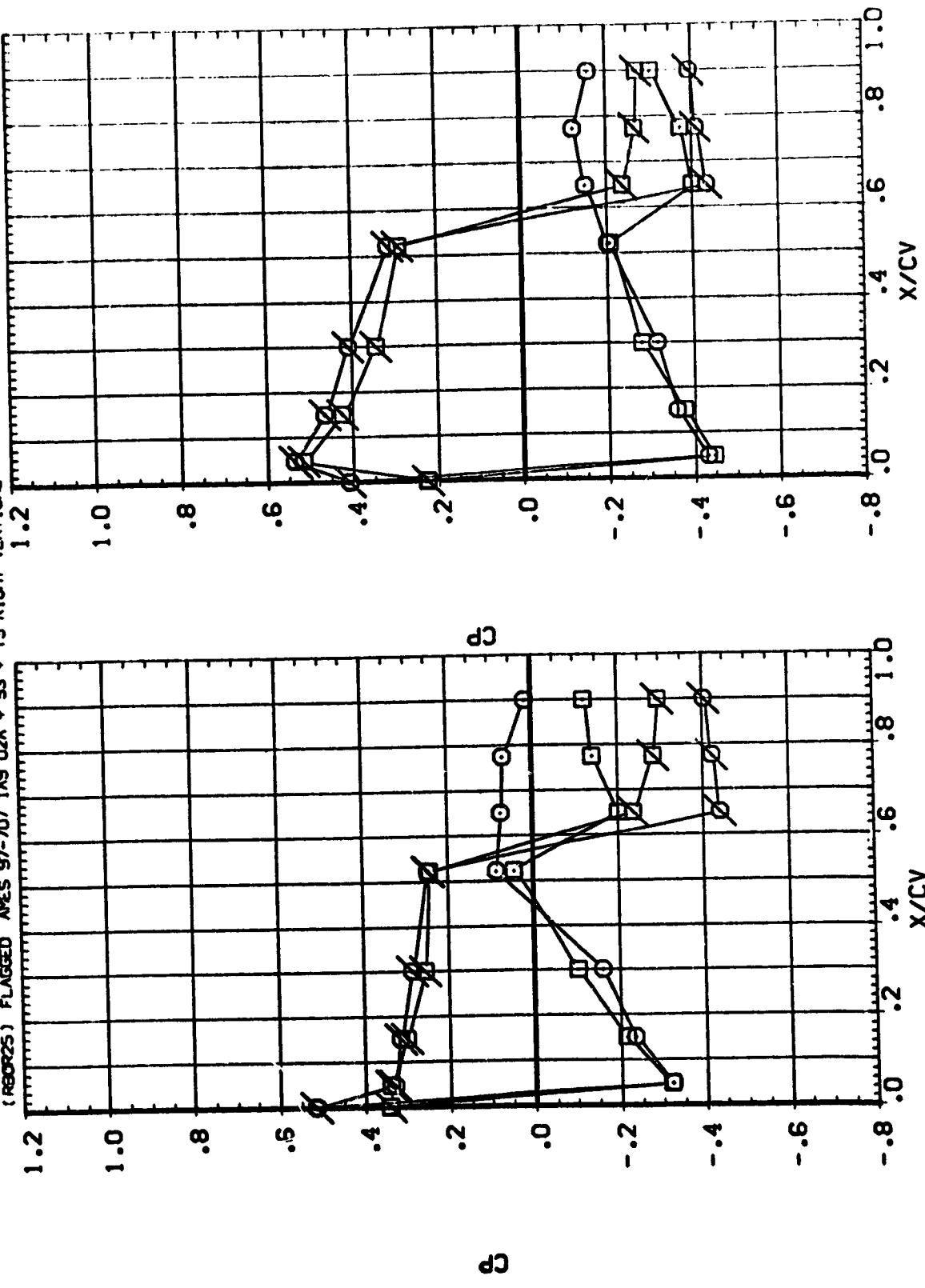
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL Z/BV BETAT MACH
 O .040 3.950 1.555
 □ .925 8.040

ALPHA15 .000
 RUDDER .000
 RUDDLR .000

ORBITAL .000
 ELEV .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBDV25) OPEN AYES 97-707 IAS 02A + S3 + T9 LEFT VERTICAL
 (RBDV25) FLAGGED AYES 97-707 IAS 02A + S3 + T9 RIGHT VERTICAL



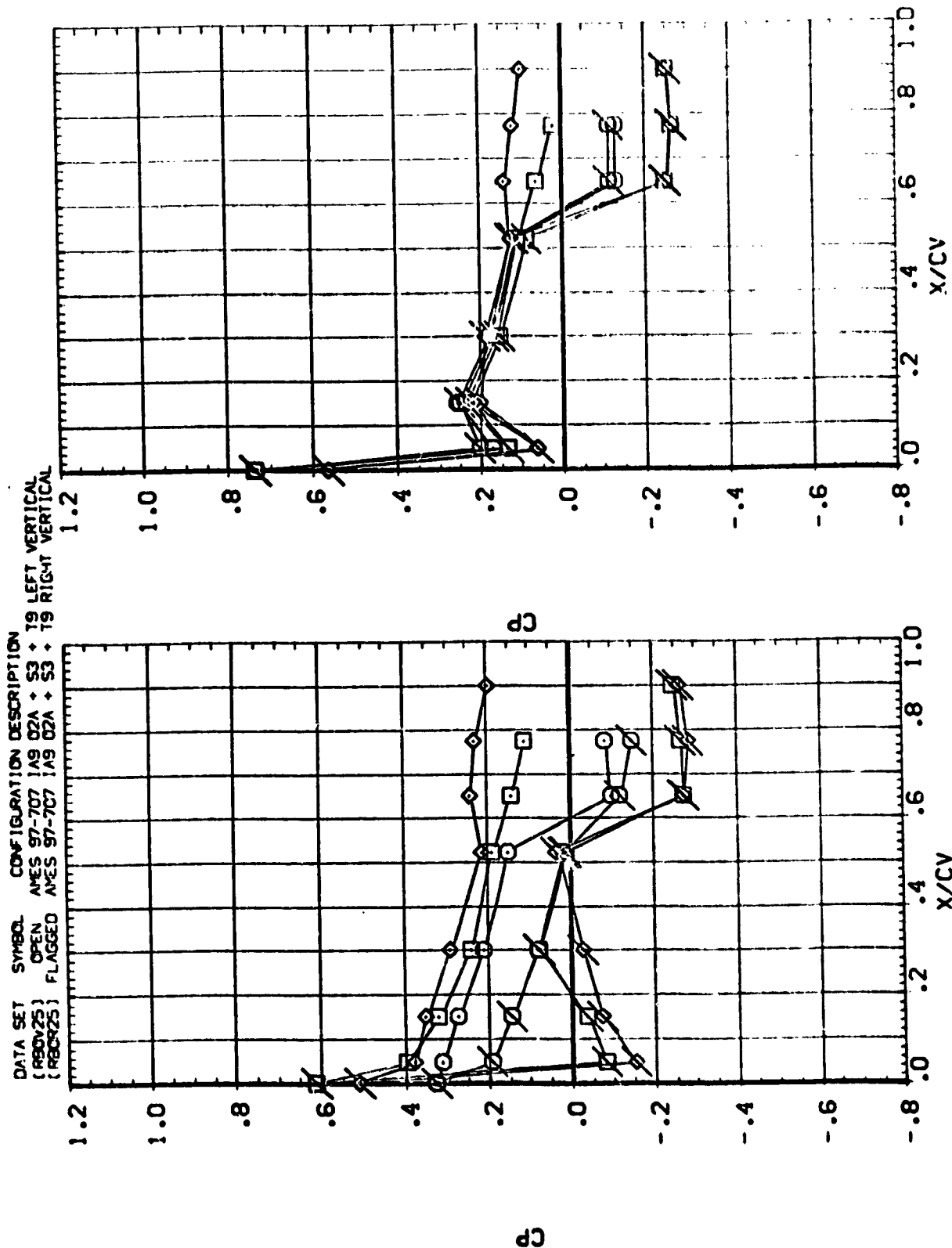
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

ALPHAT
RUDFLR

SYMBOL Z/BV BETAT MACH
 .158
 .316
 .500

OPEN
 FLAGGED
 .000
 .000
 .000

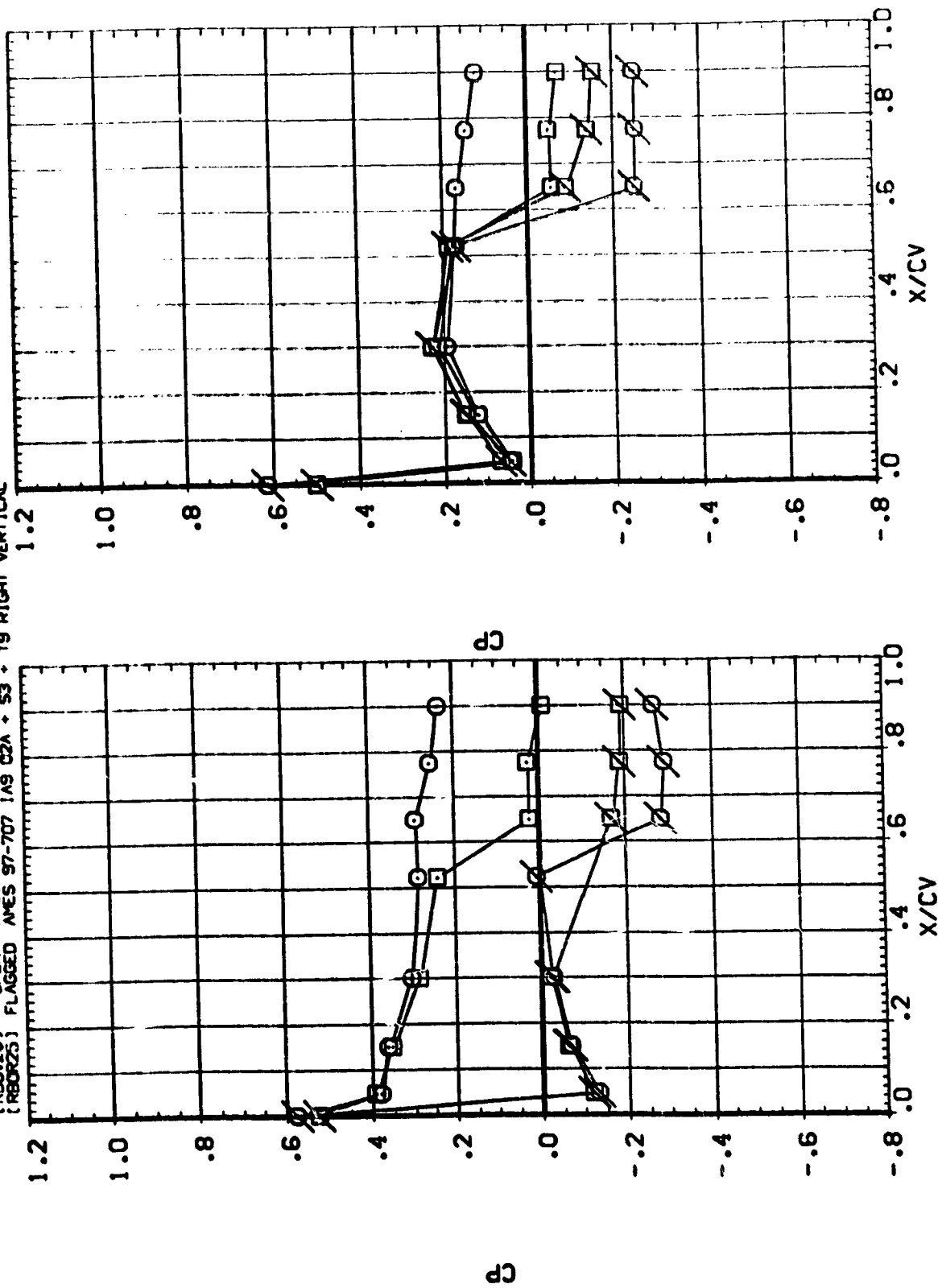


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL Z/BV BETAT MACH
 O .040 -4.210 2.000
 □ .925 -.140

PARAMETRIC VALUES
 ALPHAT .000
 RUDDER .000
 RUOFLR .000
 ELEVON .000
 SSBINC .000

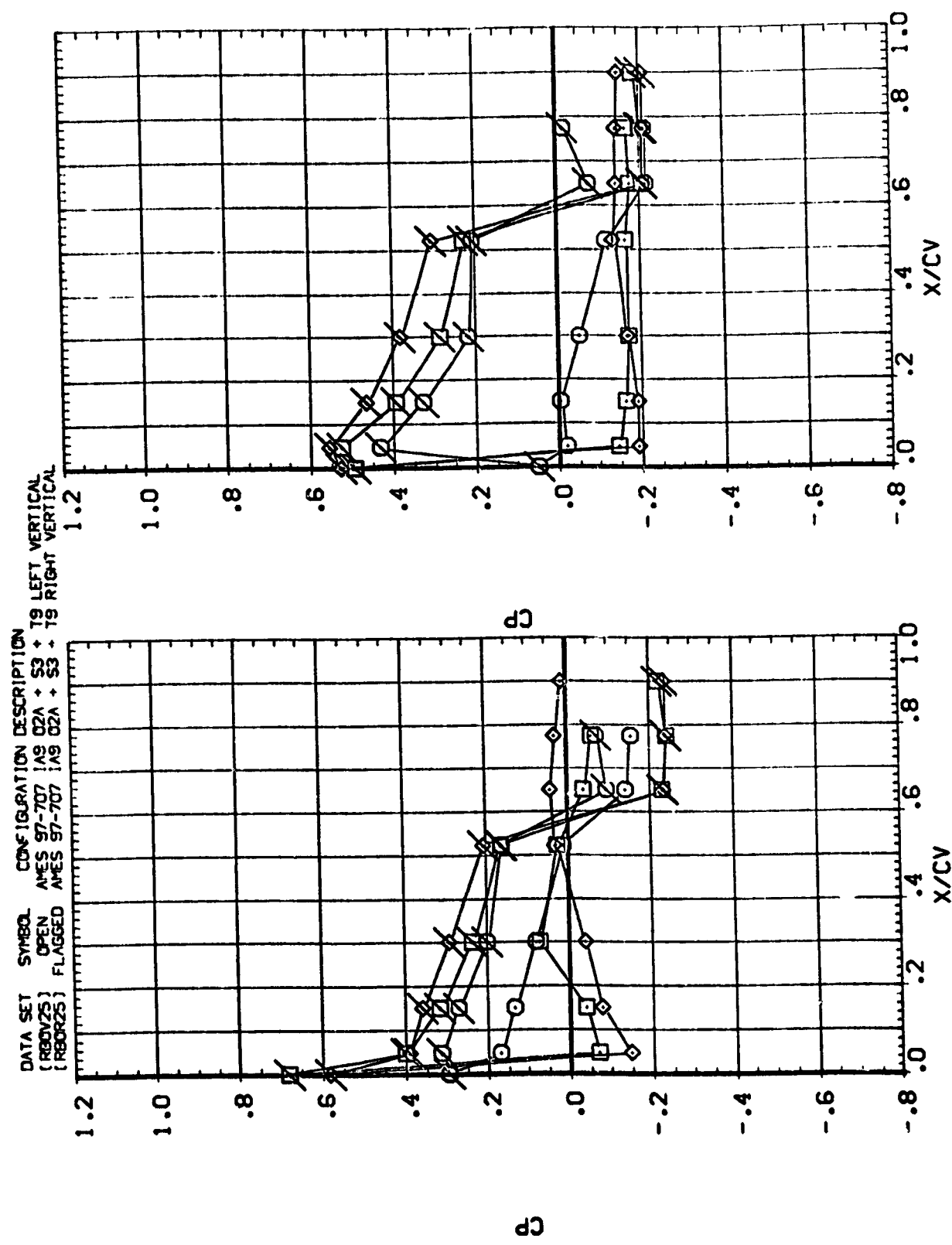
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBDV25) OPEN AMES 97-707 IAG O2A + S3 + T9 LEFT VERTICAL
 (RBDV25) FLAGGED AMES 97-707 IAG O2A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

ALPHAT
 RUDDER
 RUOFLR
 .000
 .000
 .000
 .000
 .000
 .000

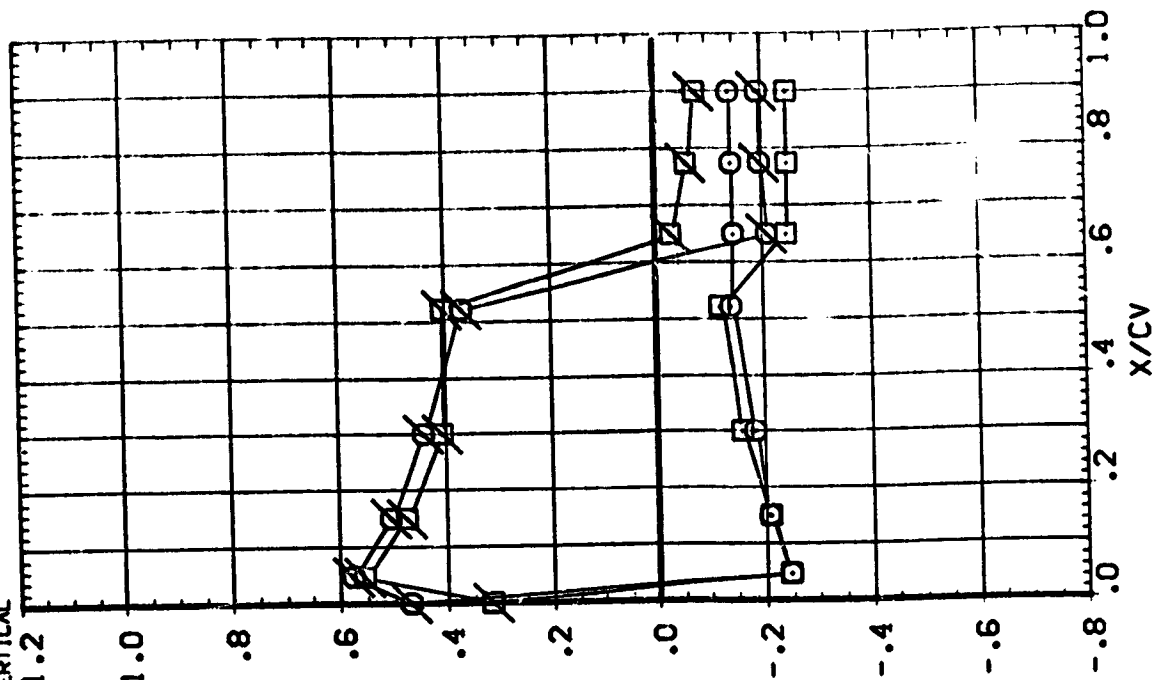
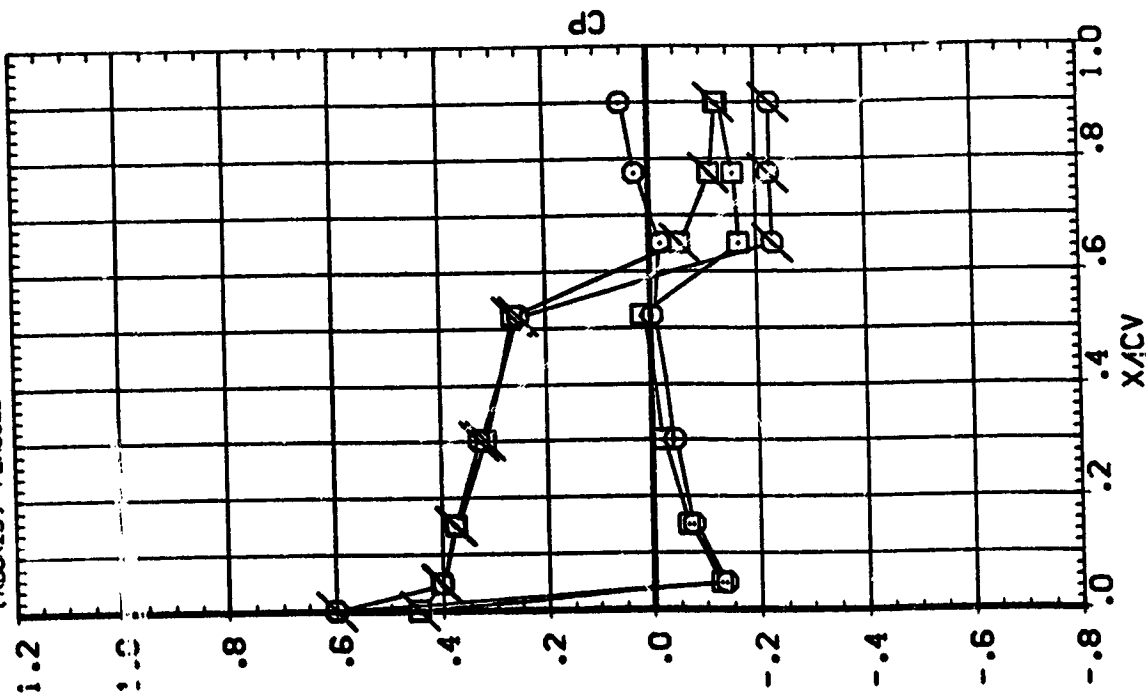
SYMBOL
 Z/BV
 .158
 .316
 .600
 BETAT
 3.950
 8.020
 MACH
 2.000



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL Z/BV BETA° MACH
 ○ .840 3.950 2.000
 □ .925 8.020

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBDV25) OPEN AMES 97-707 IAS 02A + S3 + T9 LEFT VERTICAL
 (RBDV25) FLAGGED AMES 97-707 IAS 02A + S3 + T9 RIGHT VERTICAL

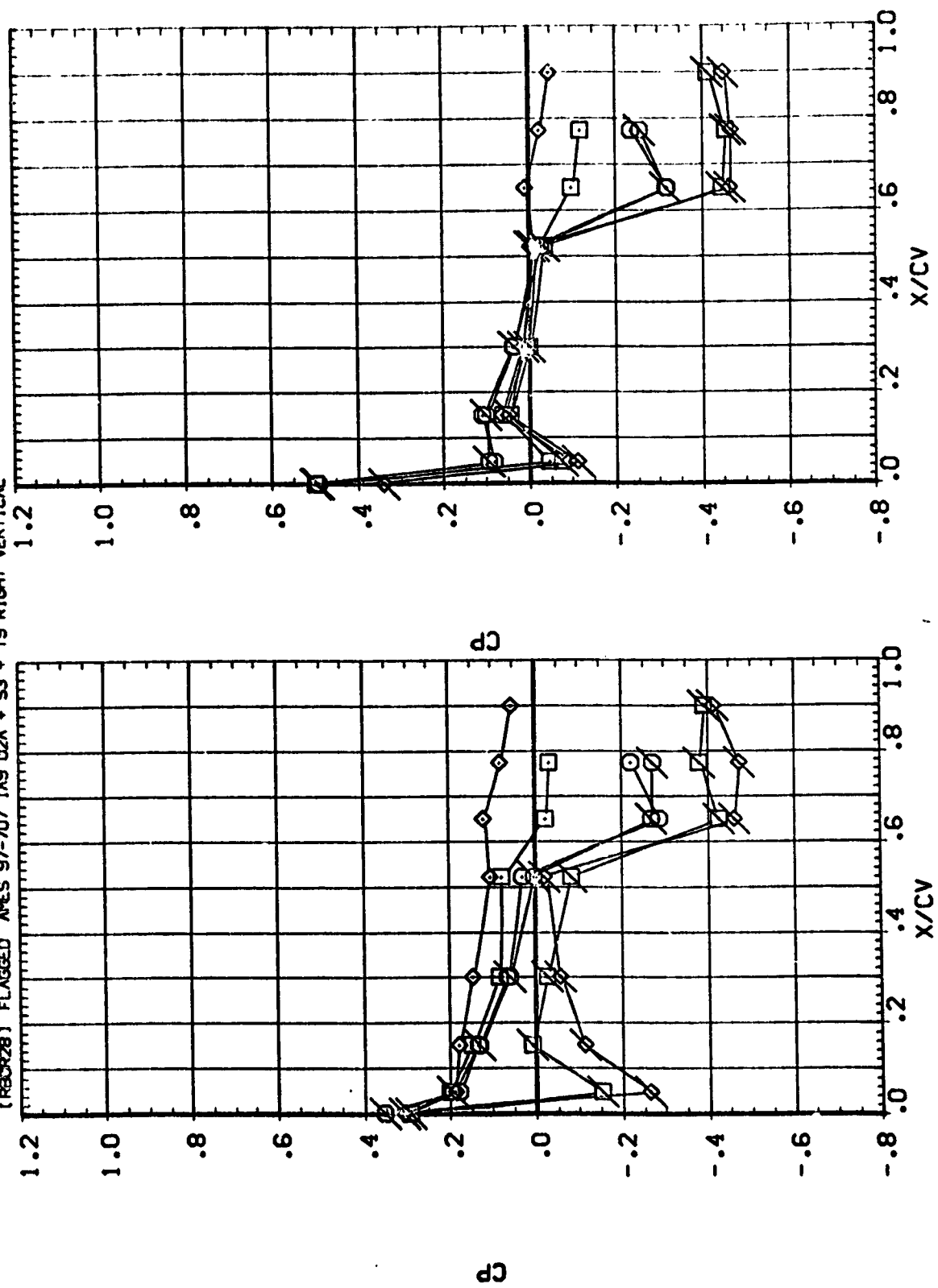


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

INFLUENCE OF
ALPHAT 8:000 ORGINC .000
RUDDER 15:000 ELEVON .000
RUOFLR .000

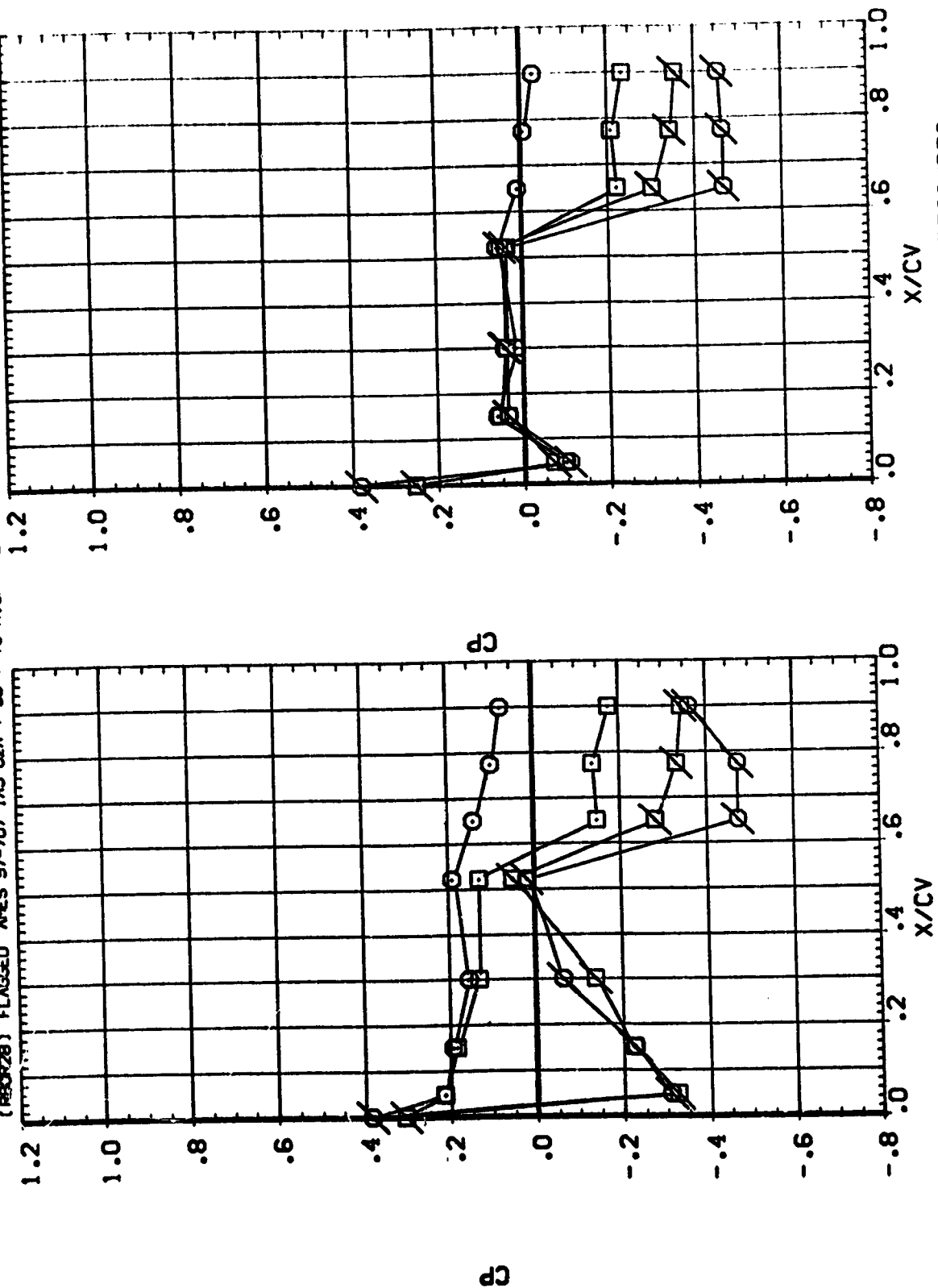
SYMBOL Z/BV BETAT MACH
O .158 -4.230 1.555
□ .316 -.110
◇ .600

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(RBDV28) OPEN AMES 97-707 IAS 02A + S3 + T9 LEFT VERTICAL
(RBDV28) FLAGGED AMES 97-707 IAS 02A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBDV28) OPEN AMES 97-707 1A9 02A + S3 + T9 LEFT VERTICAL
 (RBDV28) FLAGGED AMES 97-707 1A9 02A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL

Z/BV

BETAT

MACH

ALPHAT
RUDDER
RUOFLR

PARAMETRIC VALUES

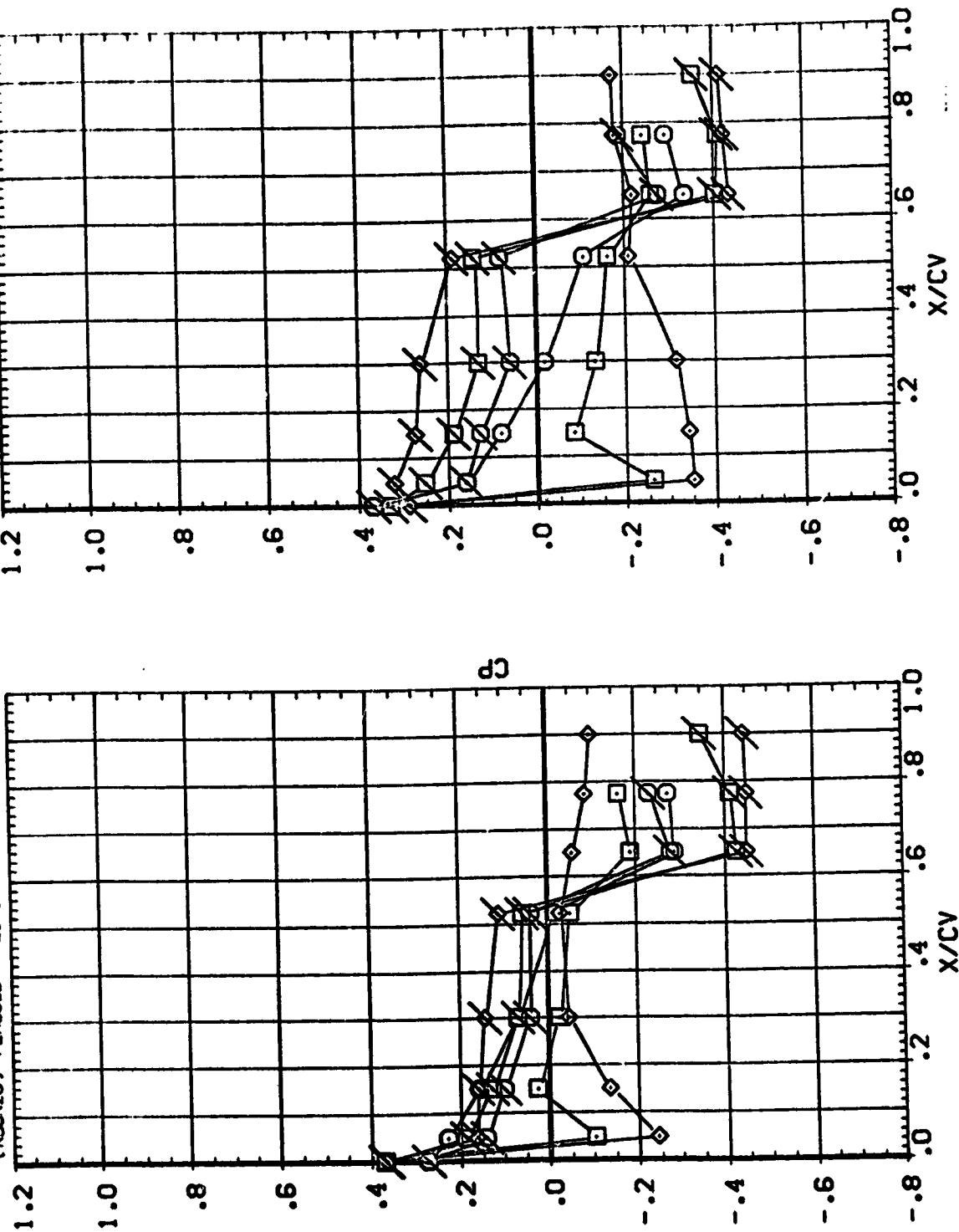
8.000
15.000

CSB:NC
ELEVON

.000
.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION

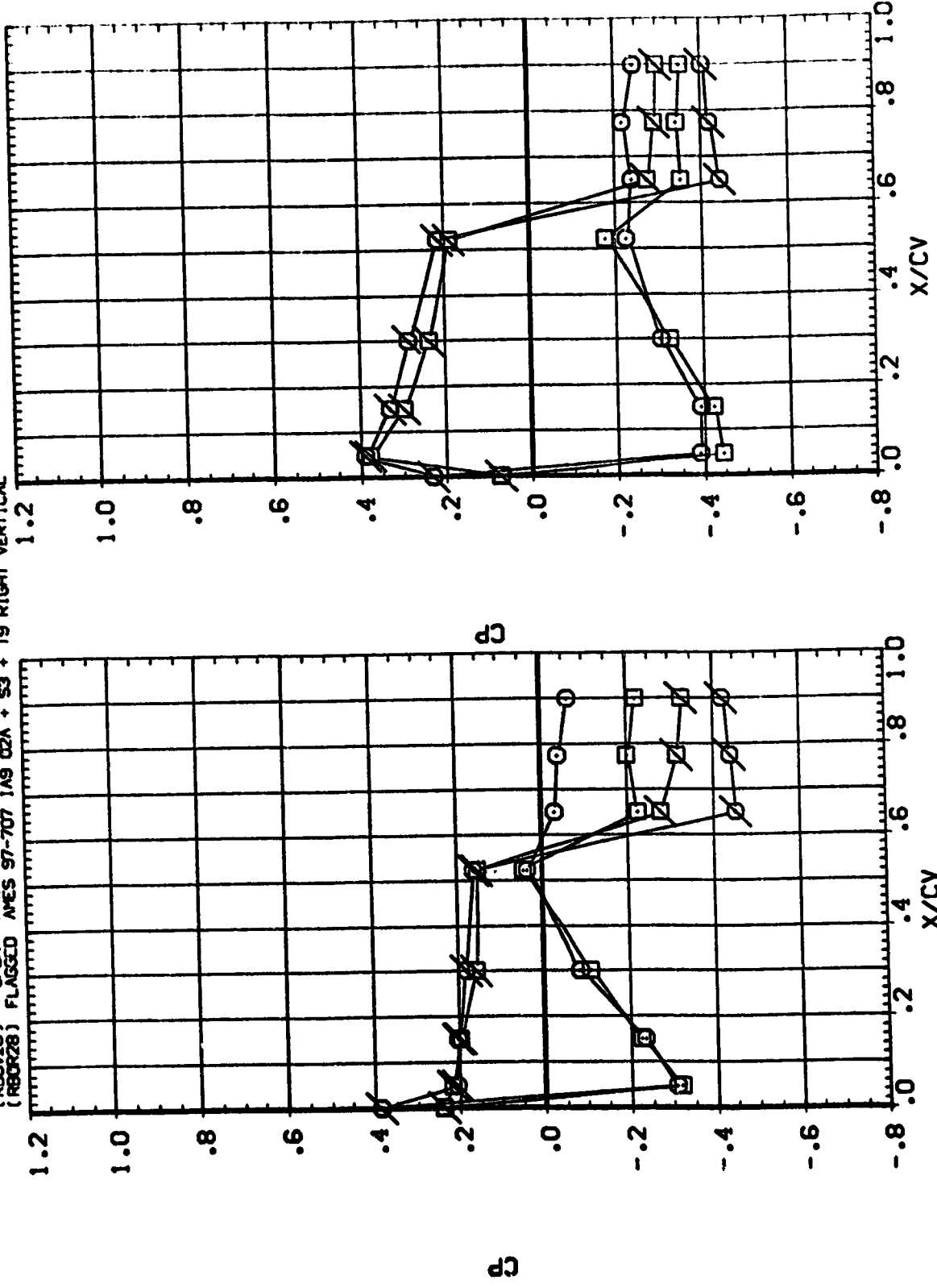
(RBOV28) AMES 97-707 IAS Q2A + S3 + T9 LEFT VERTICAL
(RBOV28) AMES 97-707 IAS Q2A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL Z/BV BETAT MACH
 .840 4.000 1.555
 .525 8.130
 ORBINC
 8.000
 15.000
 ELEVON
 .000
 .000
 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBDV28) OPEN AYES 97-707 IAS Q2A + S3 + T9 LEFT VERTICAL
 (RBDV28) FLAGGED AYES 97-707 IAS Q2A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL

Z/BV
 .158
 .316
 .600

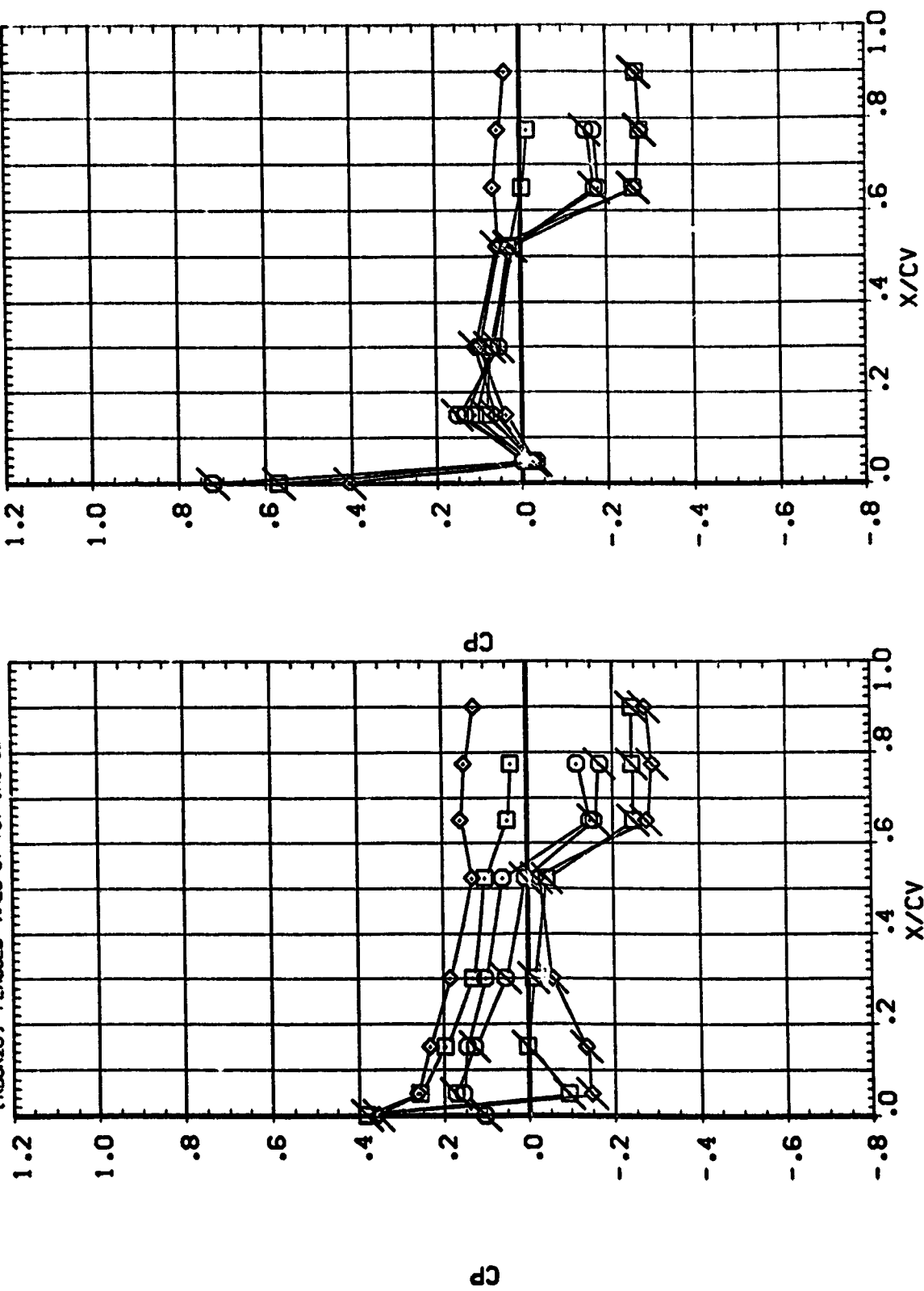
BETAT
 -4.210
 -.110

MACH
 2.000

ALPHAT
 RUDDER
 RJOFLR

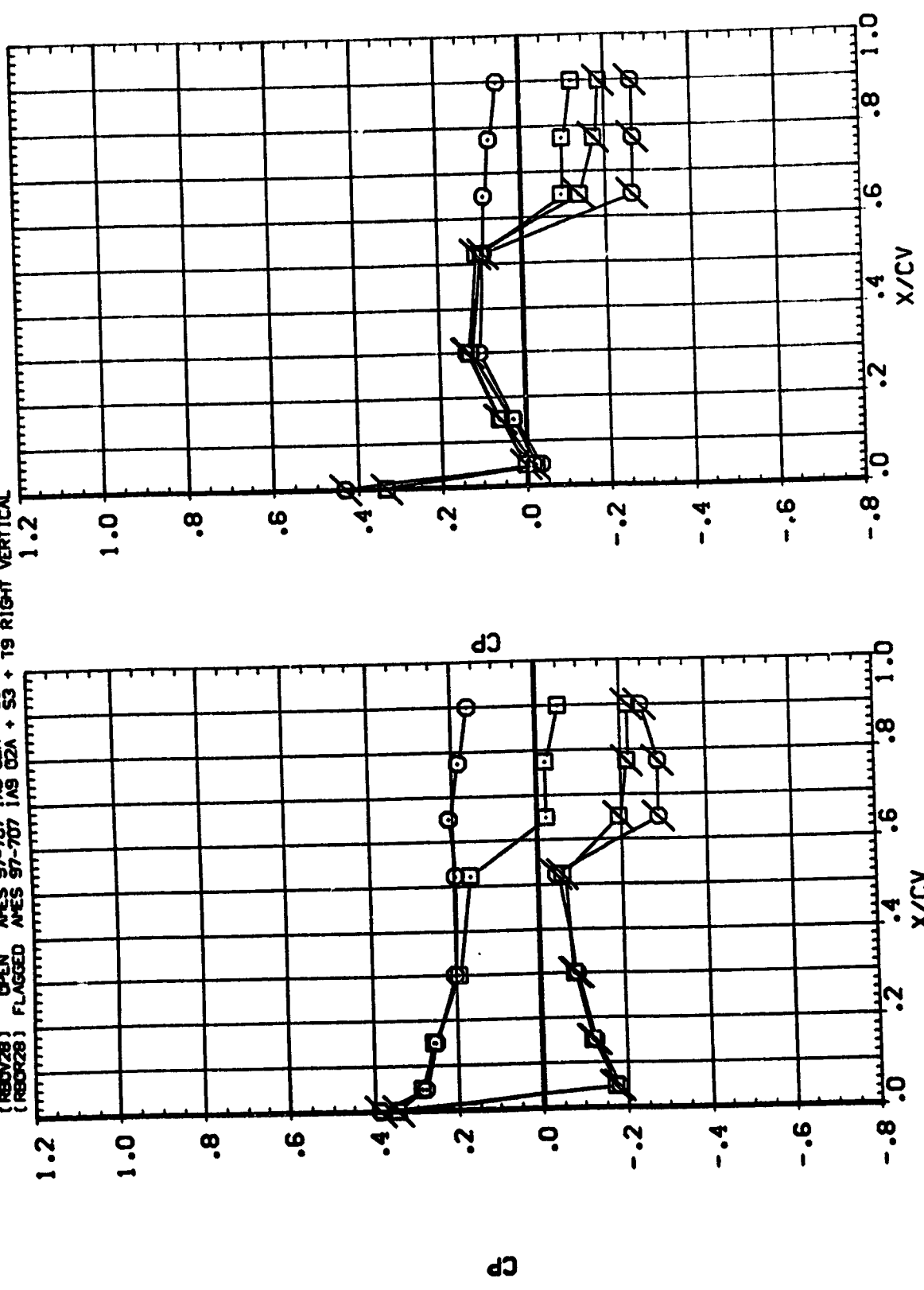
PARAMETRIC VALUES
 8.000 ORBINC
 15.000 ELEVON
 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBOV28) OPEN AWES 97-707 IAS 02A + S3 + T9 LEFT VERTICAL
 (RBOV28) FLAGGED AWES 97-707 IAS 02A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBDV28) OPEN AYES 97-707 IAS 02A + S3 + T9 LEFT VERTICAL
 (RBDV28) FLAGGED AYES 97-707 IAS 02A + S3 + T9 RIGHT VERTICAL

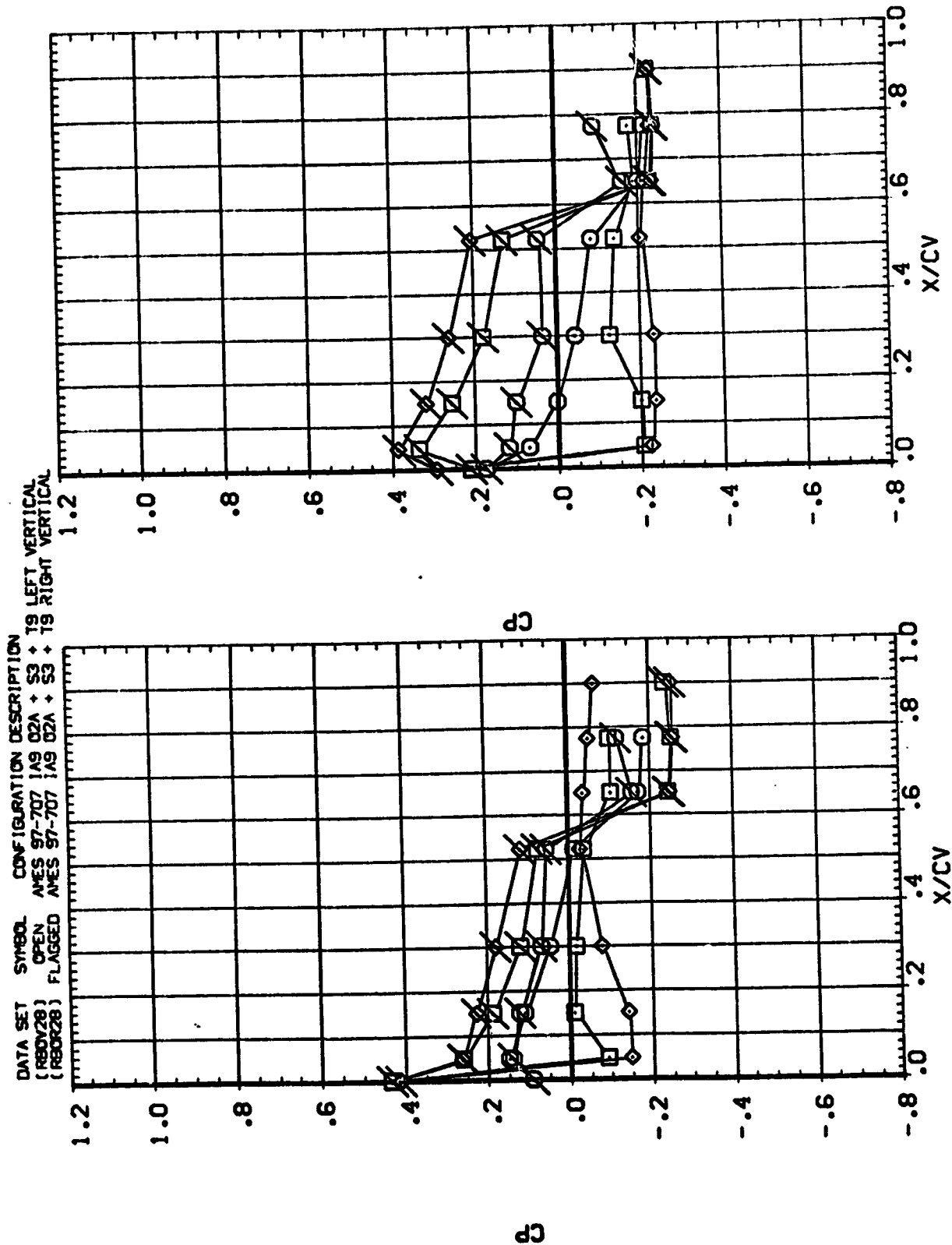


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

III

SYMBOL Z/BV BETAT MACH
 .156 3.990 2.000
 .316 8.110
 .600

PARAMETRIC VALUES
 ALPHAT 8.000 DRBINC .000
 RUDDER 15.000 ELEVON .000
 RUFLR .000



ALPHA: 0.000
 RUDDER 15.000
 RUOFLR .000

DATA SET SYMBOL
 (RBOV28) OPEN
 (RBOV28) FLAGGED

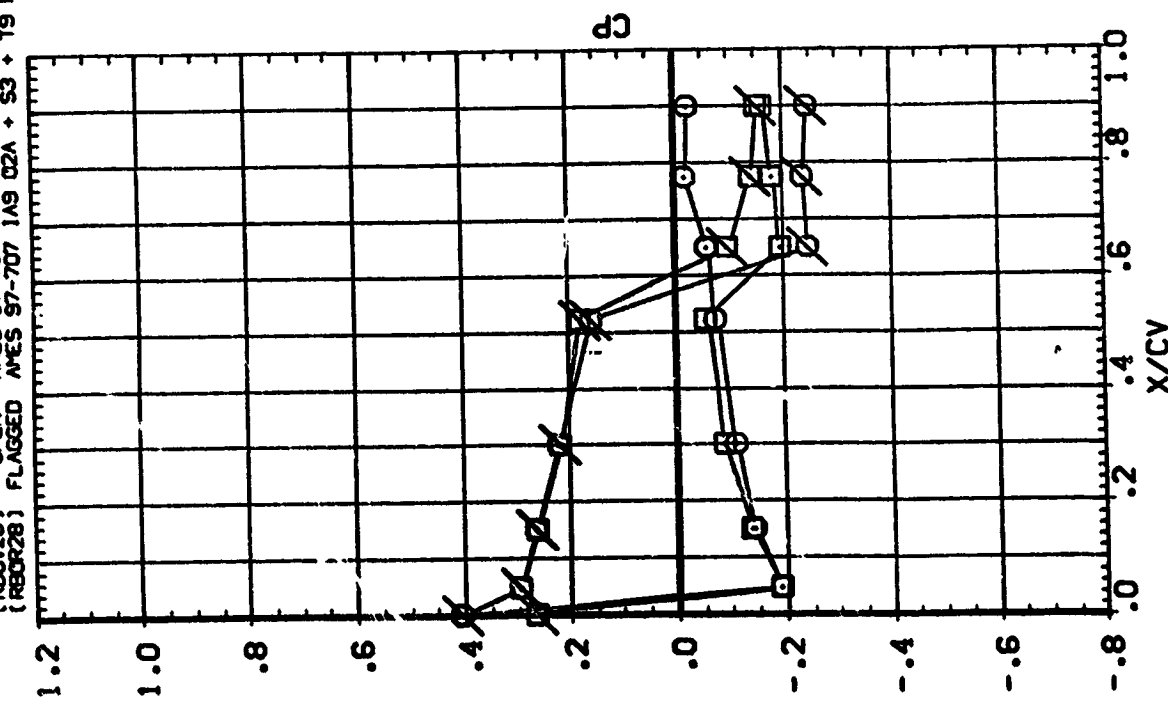
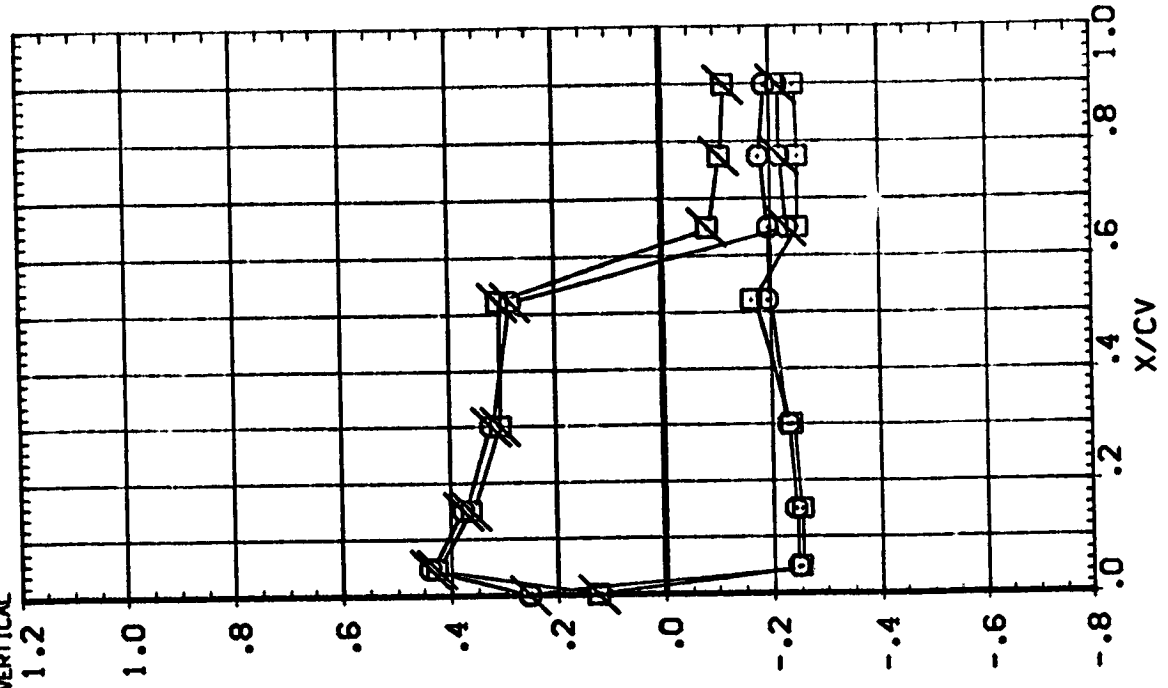
0.840
 0.925

0.990
 0.110

2.000

0.000
 0.000

CONFIGURATION DESCRIPTION
 AYES 97-707 IAS 02A + S3 + 19 LEFT VERTICAL
 AYES 97-707 IAS 02A + S3 + 19 RIGHT VERTICAL



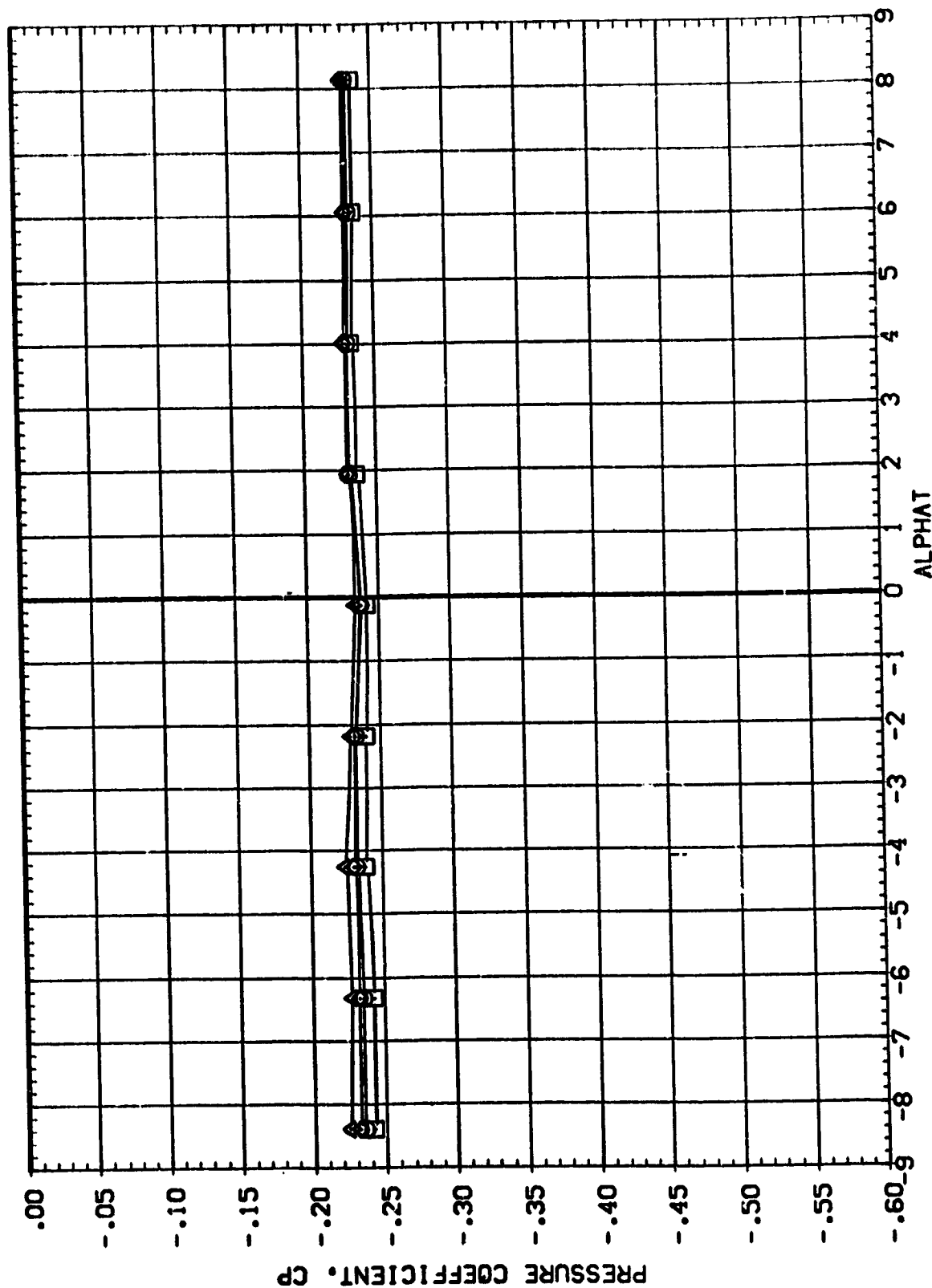
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

(R80C01)

AMES 97-707 1A9 02A + S3 + T9 ORBITER BASE

SYMBOL TAP NO A MACH
□ 1.000
□ 2.000
△ 3.000
△ 4.000

PARAMETRIC VALUES
BETAT .000 ORBINC .500
RUDDER .000 ELEVON .000
RUOFLR .000



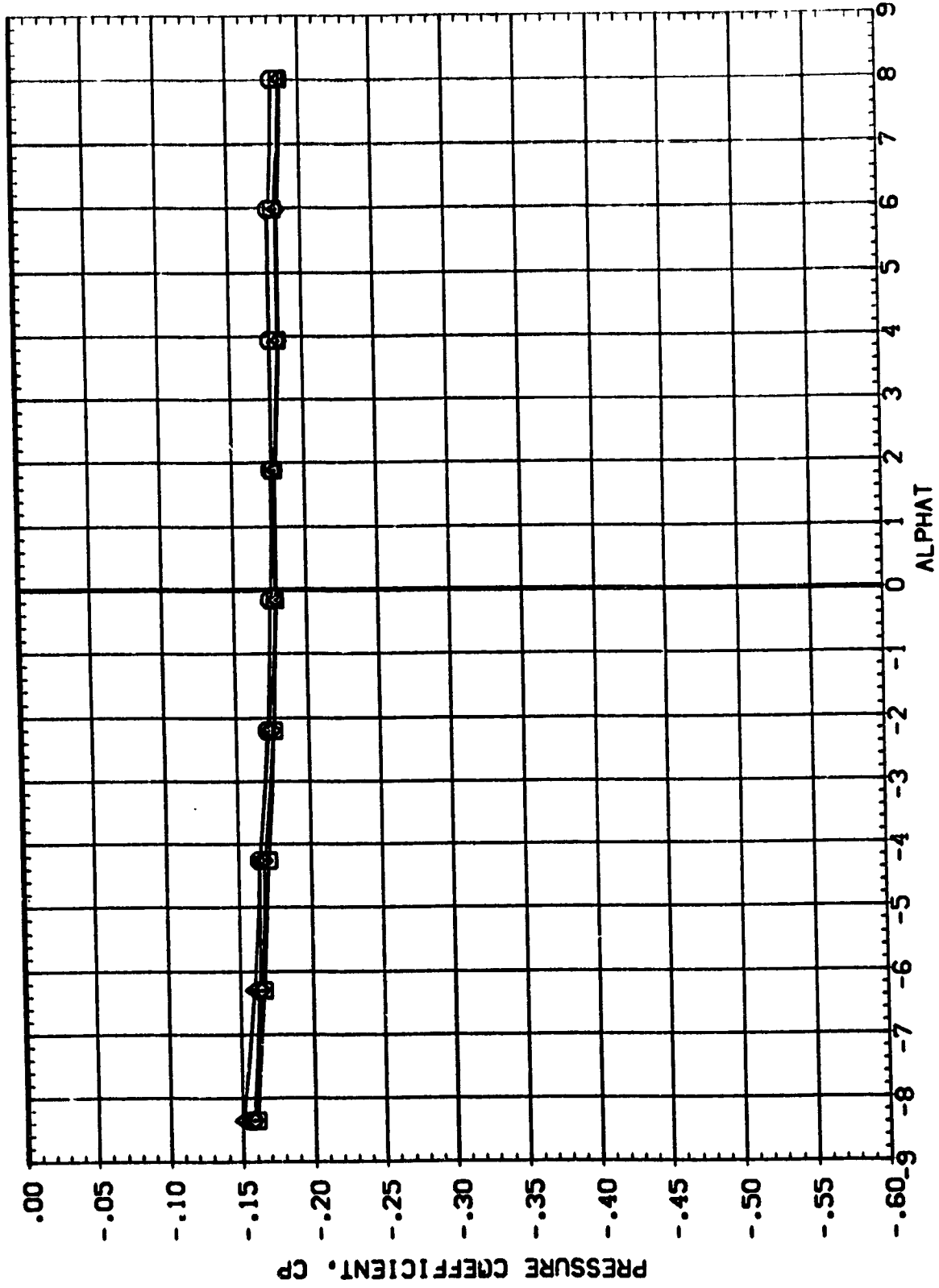
ORBITER BASE PRESSURES

(RECUR)

AMES 97-707 1A9 02A + S3 + T9 ORBITER BASE

PARAMETRIC VALUES
BETAT .000 ORBINC .500
RUDDER .000 ELEVEN .000
RUOFLR .000

SYMBOL TAP NO A MACH
1.000 2.000
2.000 3.000
3.000 4.000

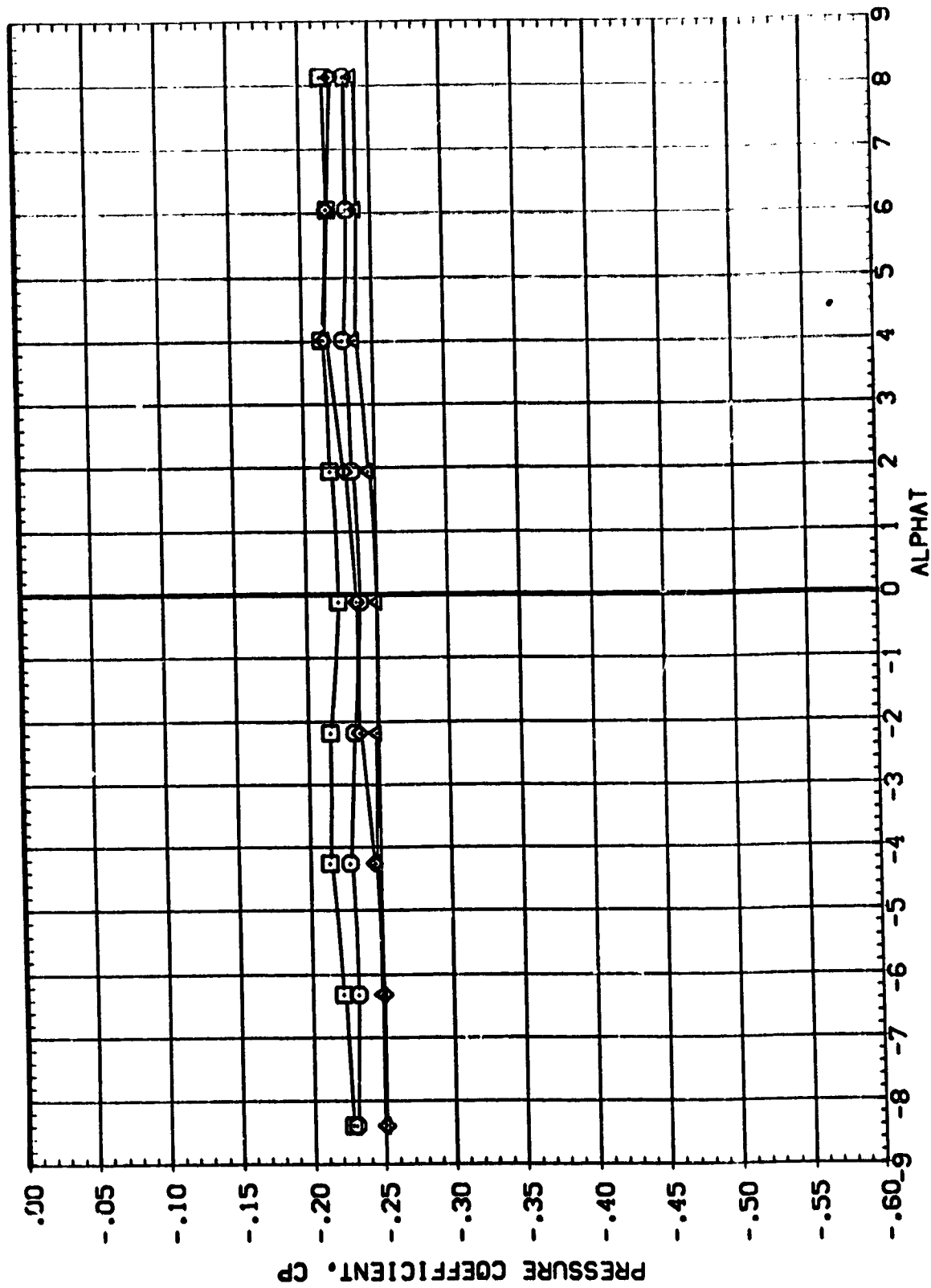


ORBITER BASE PRESSURES

III

AMES 97-707 1A9 02A + S3 + T9 ORBITER BASE (RBOC01)

TAP NO 6.000 7.000 8.000 9.000
 A .000
 MACH 1.555
 PARAMETRIC VALUES
 BETAT .000
 RUDDER .000
 RUOFLR .000
 ORBINC .500
 ELEVEN .000



ORBITER BASE PRESSURES

(RBCCCC)

AMES 97-707 1A9 02A + S3 + T9 ORBITER BASE

SYMBOL
○
□
◇
△

TAP NO
6.000
7.000
8.000
9.000

MACH
2.000

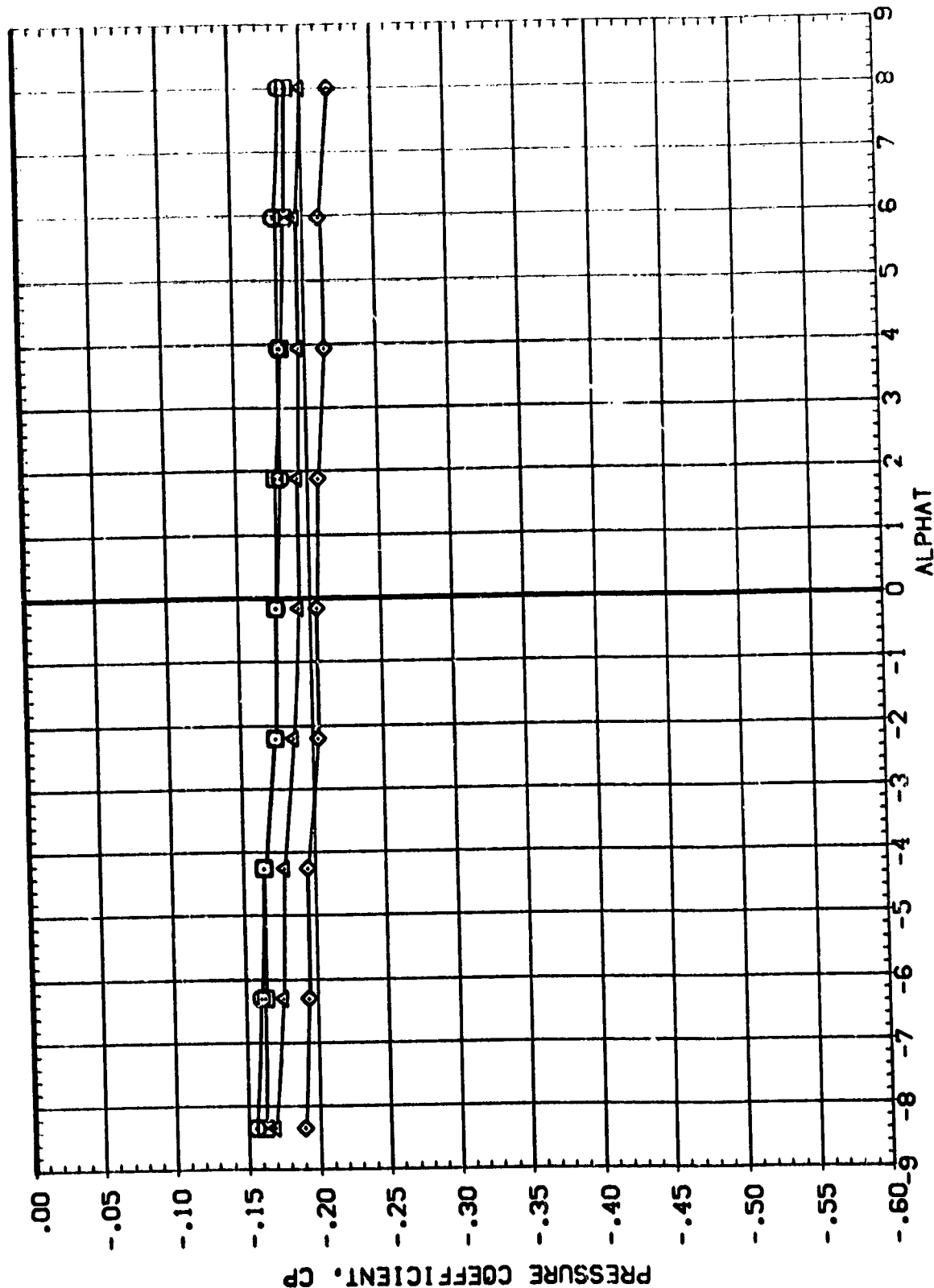
A
.000

BETAT
RUDDER
RUOTLR

PARAMETRIC VALUES

.500
.000
.000
.000

999.12
ELEVON



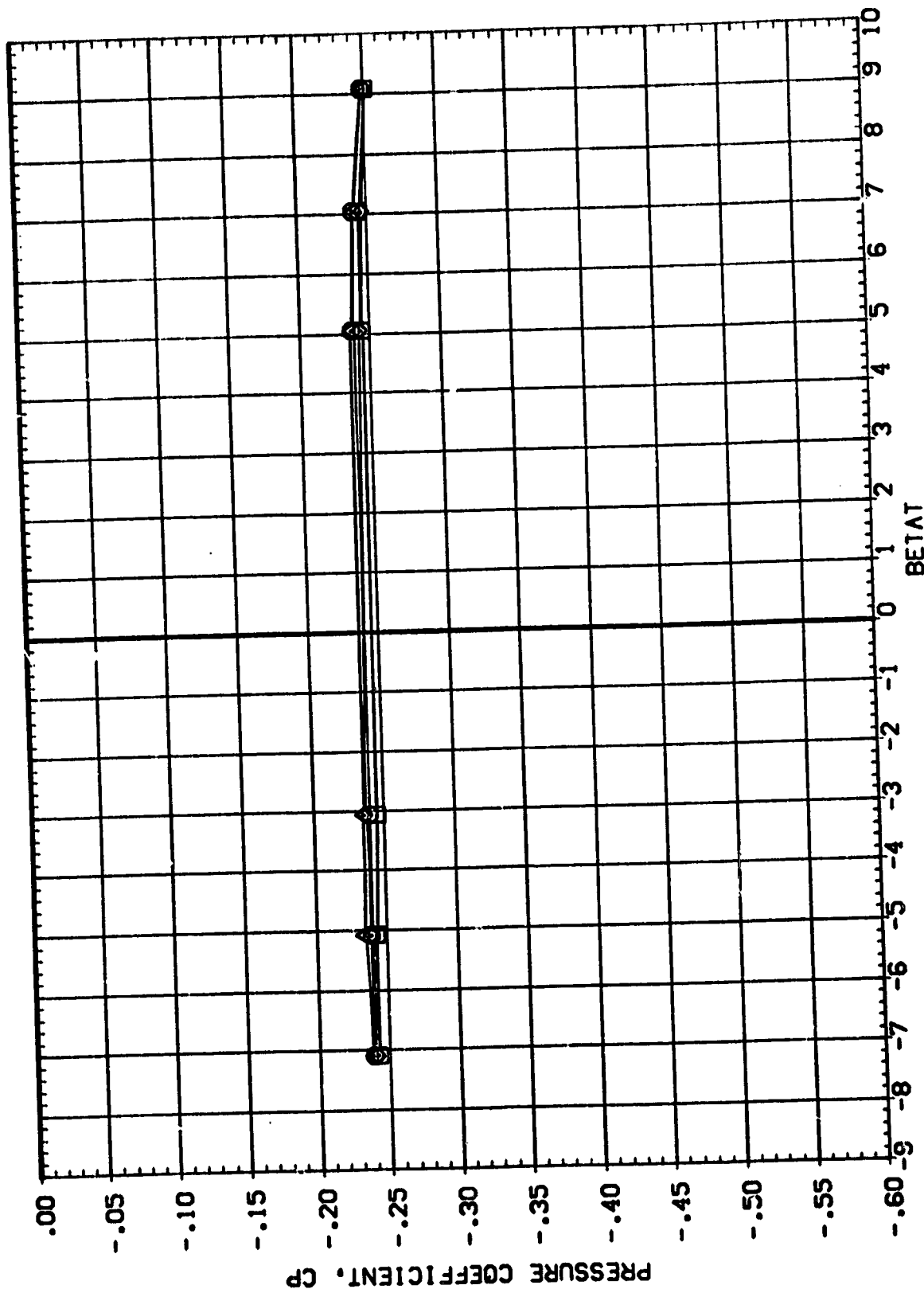
ORBITER BASE PRESSURES

(RB0C06)

AMES 97-707 1A9 02A + S3 + T9 ORBITER BASE

SYMBOL TAP NO A MACH
1.000 .000 1.555
2.000
3.000
4.000

PARAMETRIC VALUES
ALPHAT .000 ORBINC .500
RJOOR .000 ELEVON .000
RJOFLR .000

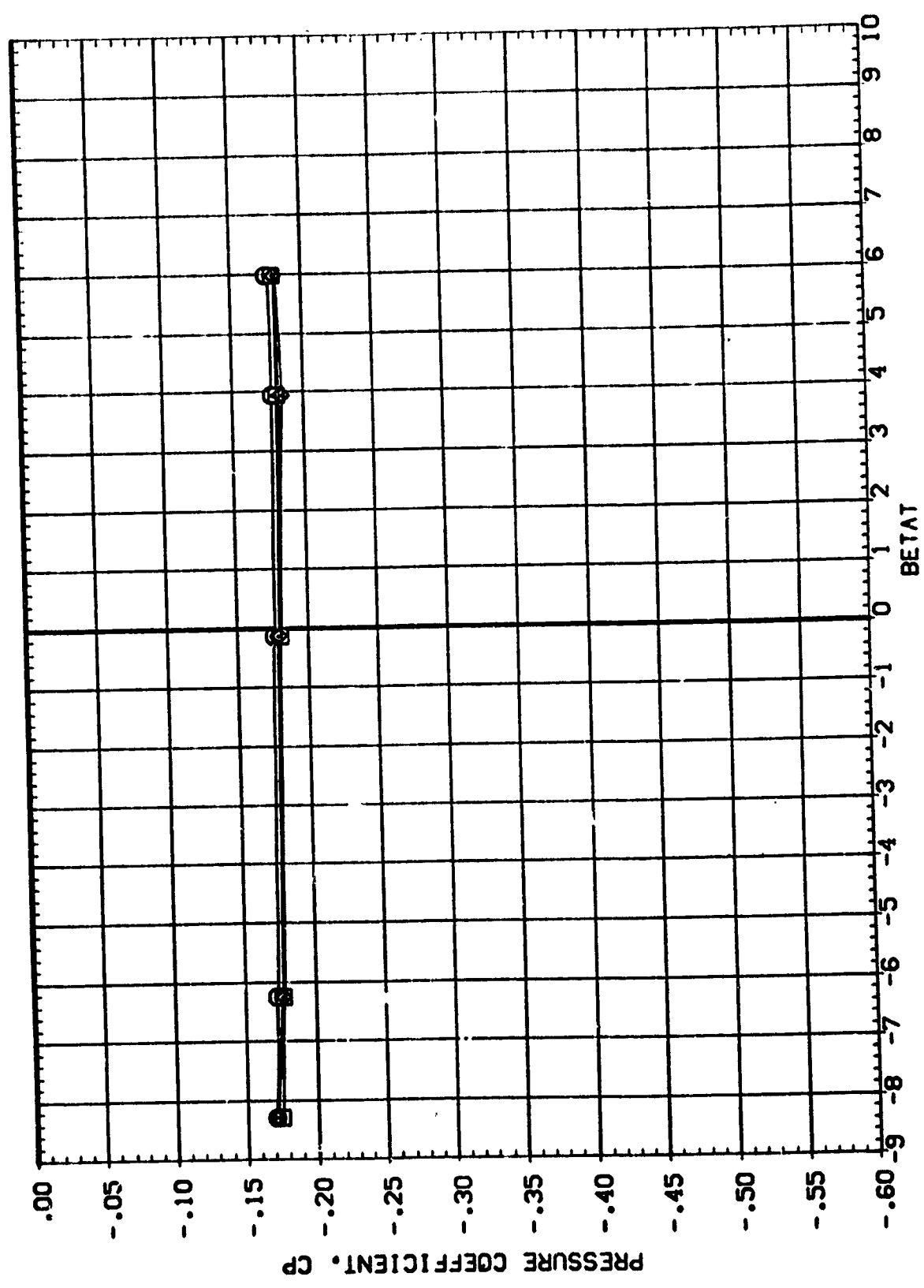


ORBITER BASE PRESSURES

REF ID: A66000

SYMBOL TAP NO A MACH
□ 1.000
◇ 2.000
△ 3.000
4.000

PARAMETRIC VALUES
ALPHAT .000 ORBITAL .500
RUDER .000 ELEVON .000
RLOFLR .000



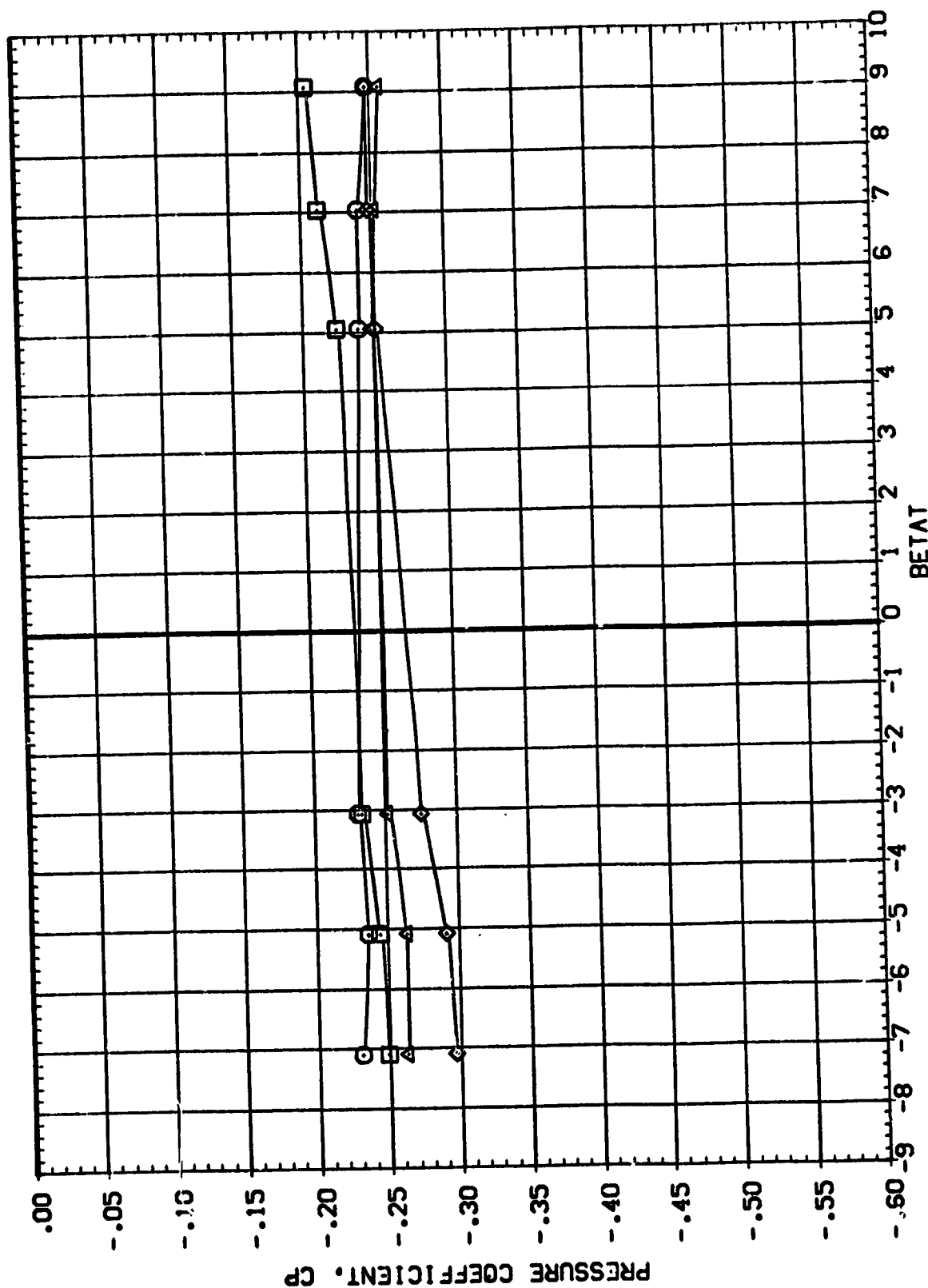
ORBITER BASE PRESSURES

(RB0006)

AMES 97-707 1A9 02A + S3 + T9 ORBITER BASE

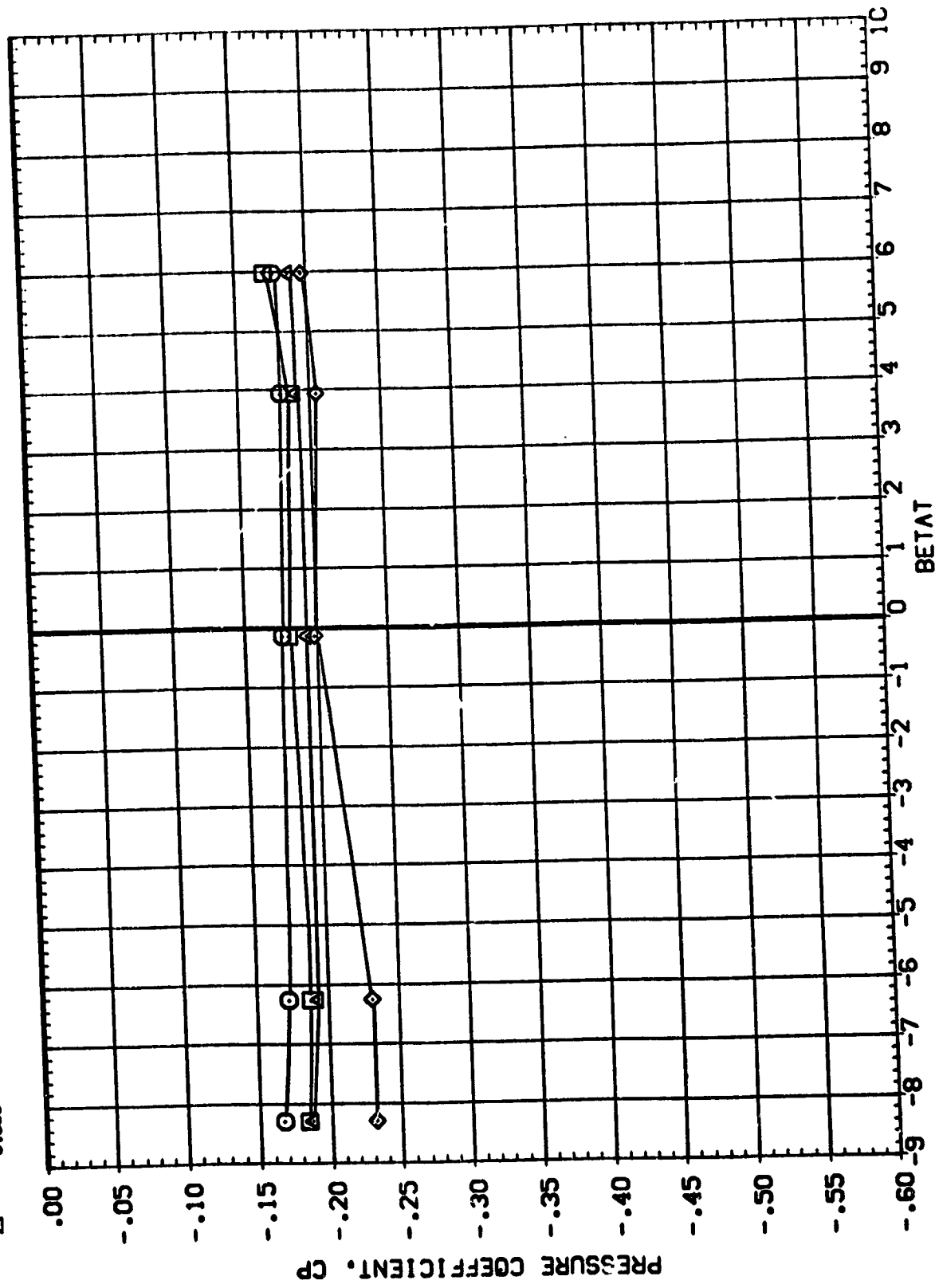
PARAMETRIC VALUES
ALPHA: .000
RUDER .000
RUFLR .000
ORBITING .500
ELEVON .000

SYMBOL TAP NO A MACH
□ 6.000 .000 1.555
□ 7.000
△ 8.000
△ 9.000



ORBITER BASE PRESSURES

6.000
7.000
8.000
9.000



ORBITER BASE PRESSURES

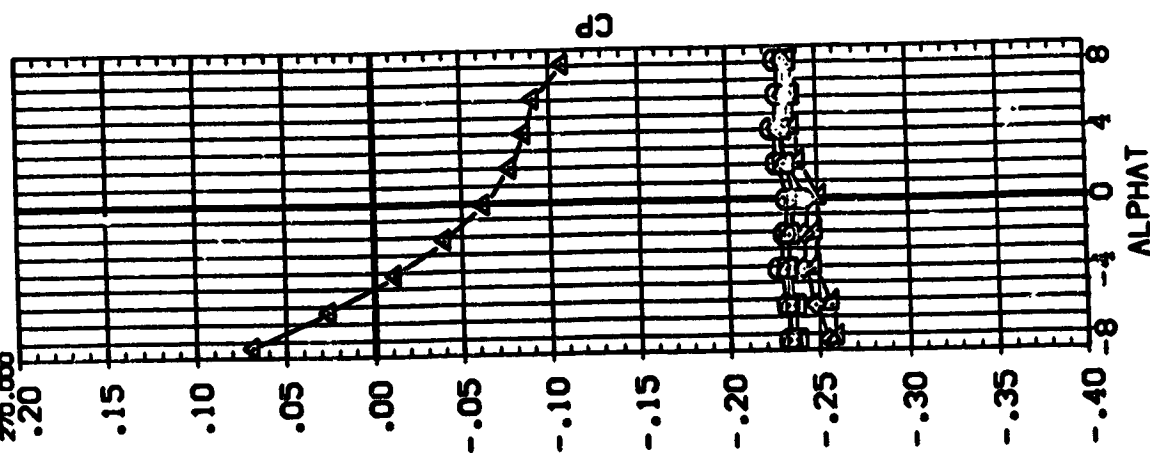
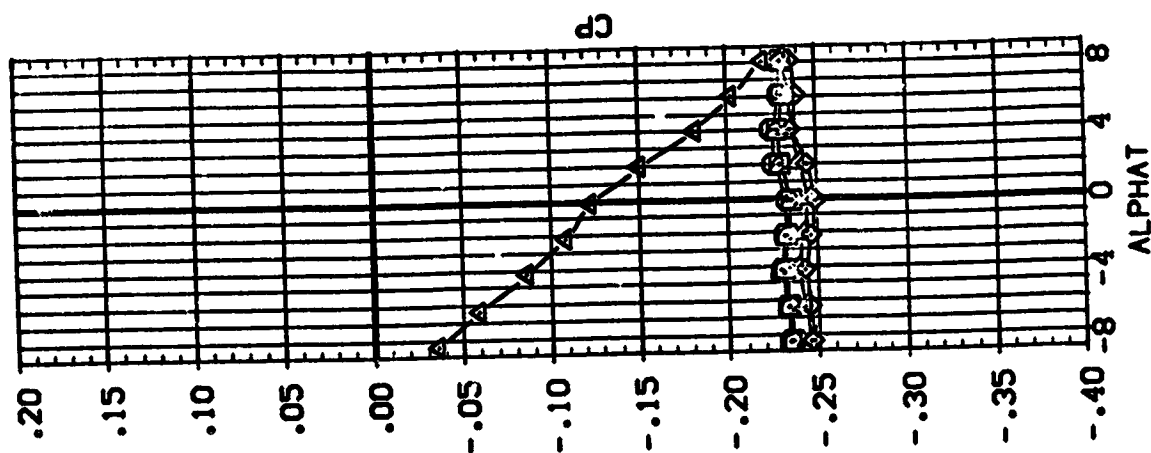
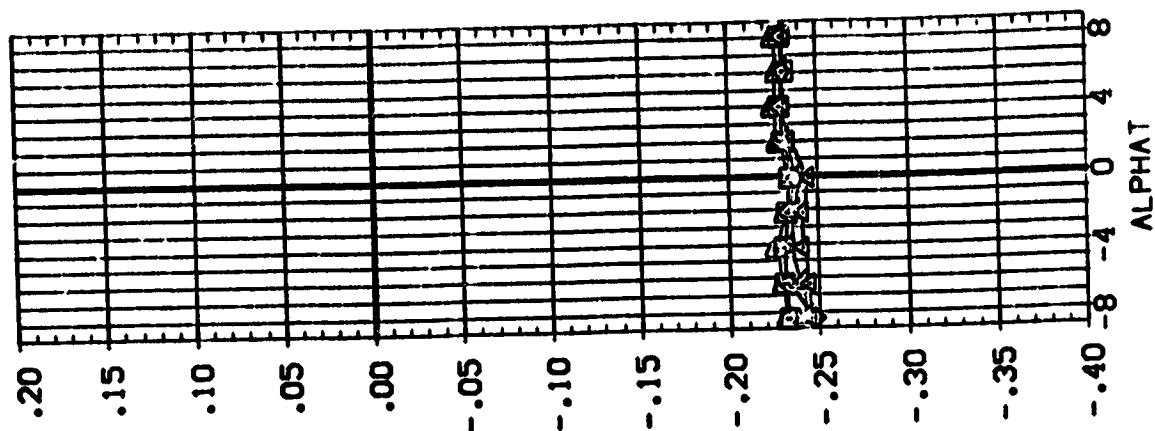
(RB0001)

PHI
90,000
135,000
180,000
225,000
270,000

SS 1
MACH

BETAT	.000	ORGINC
RJOER	.000	ELEVON
RJOFLR	.000	

33.

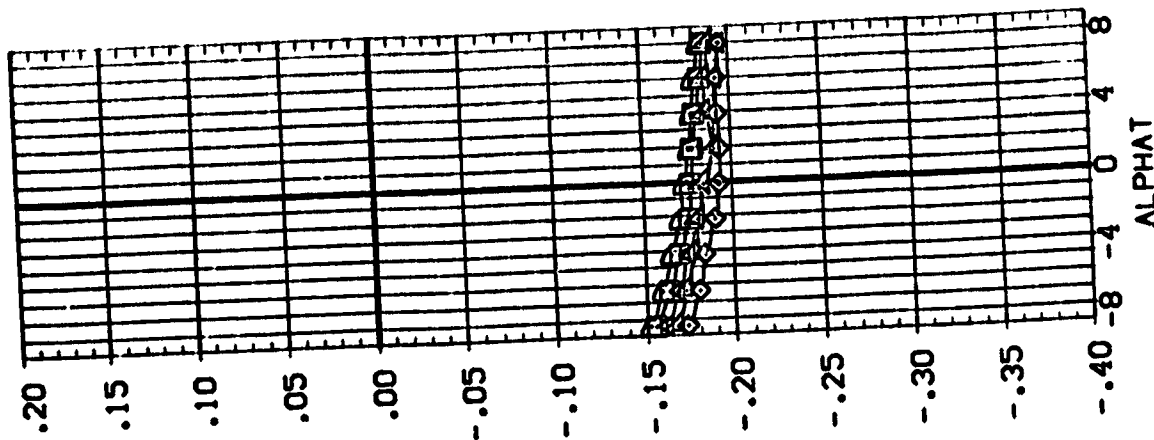
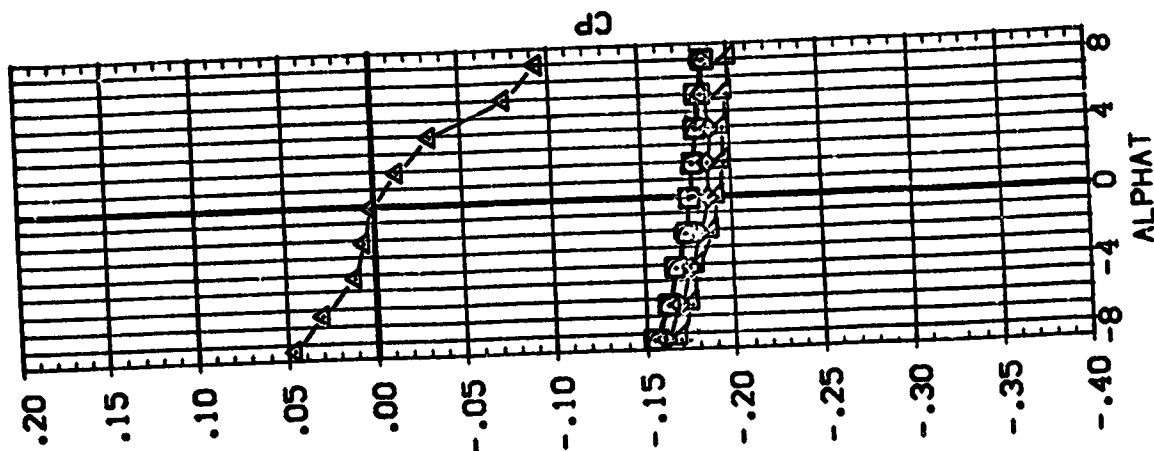
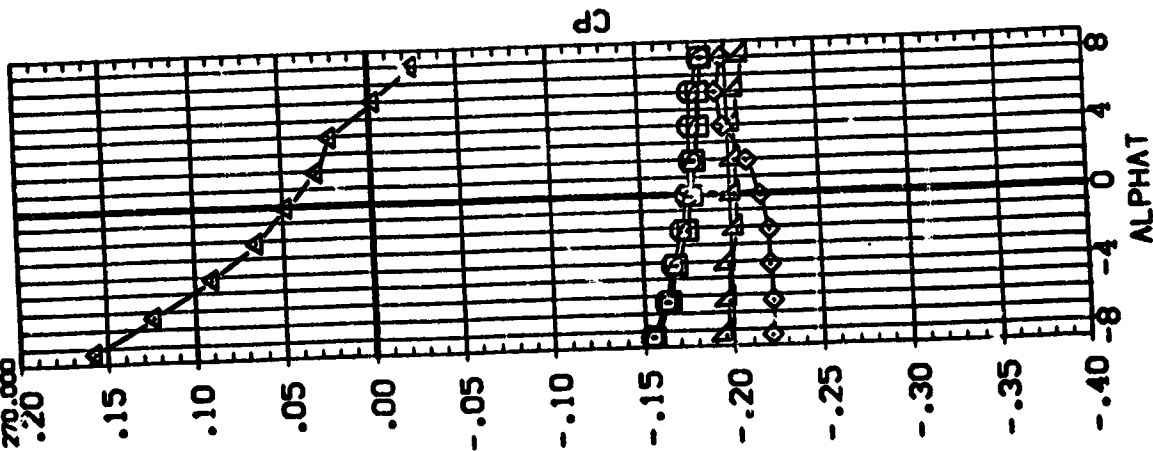


UPPER MPS NOZZLE PRESSURES

SYMBOL
 □ ○ ◇ △ ▽

PHI .000
 90.000
 135.000
 180.000
 225.000
 270.000

XALNP MACH
 .250 2.000
 .500
 .750



PARAMETRIC VALUES
 BETAT .000
 RUDDER .000
 ROLFLR .000

ORBITAL .500
 ELEVON .000

UPPER MPS NOZZLE PRESSURES

(RB0006)

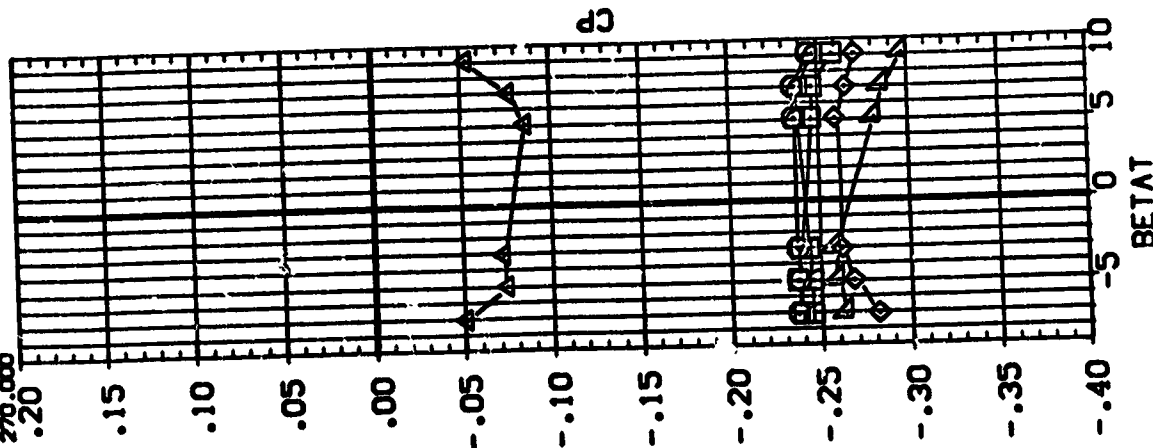
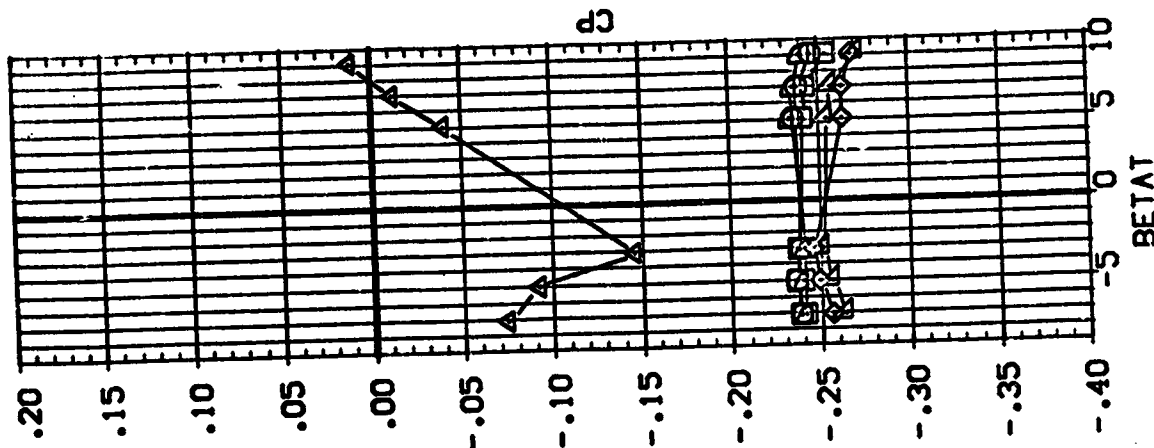
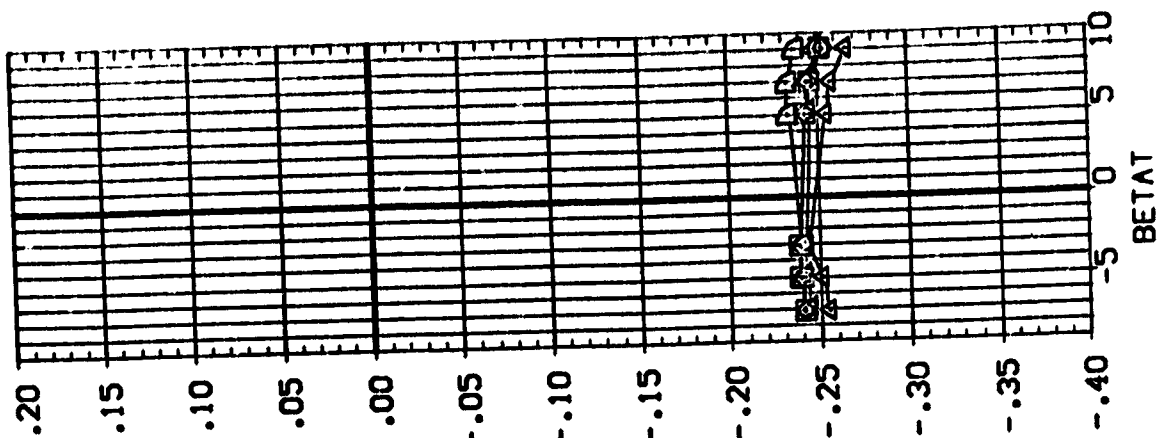
AMES 97-707 1A9 02A + S3 + T9 UPPER MPS NOZZLE

SYMBOL

PHI
 .000
 90.000
 135.000
 180.000
 225.000
 270.000

X/LMP MACH
 .250 1.555
 .500
 .750

PARAMETRIC VALUES
 ALPHAT .000 ORBINC .500
 R00DR .000 ELEVON .000
 R00FLR .000



UPPER MPS NOZZLE PRESSURES

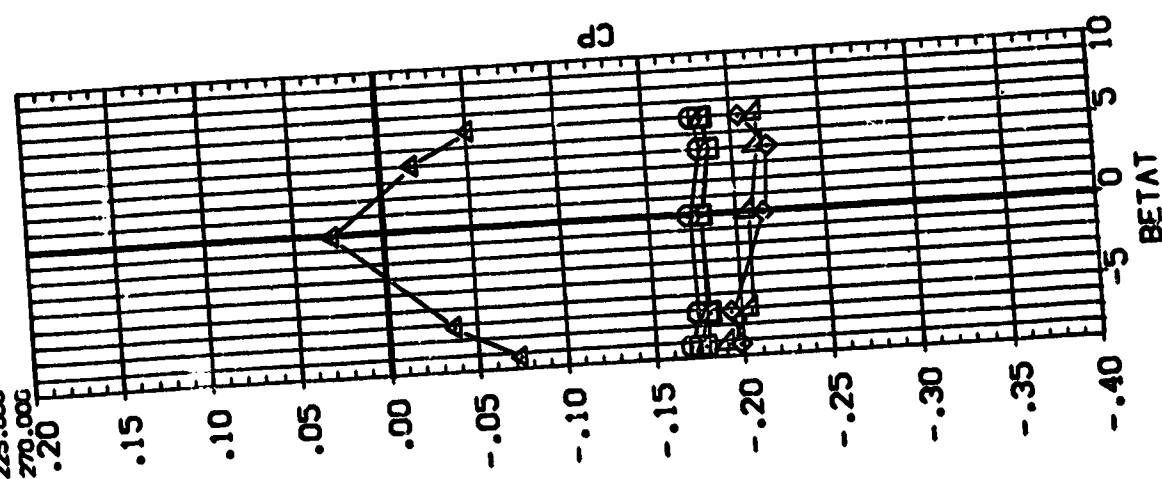
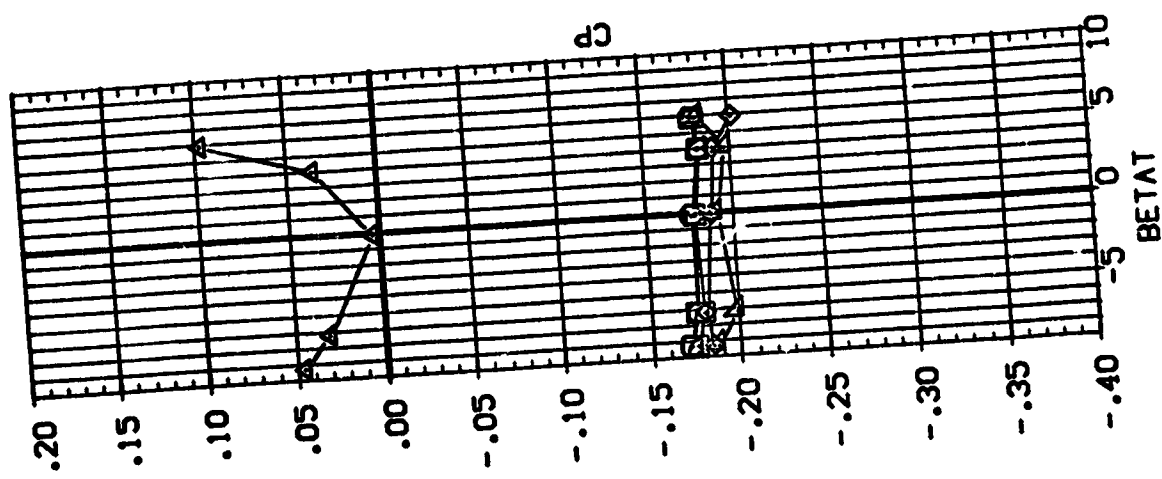
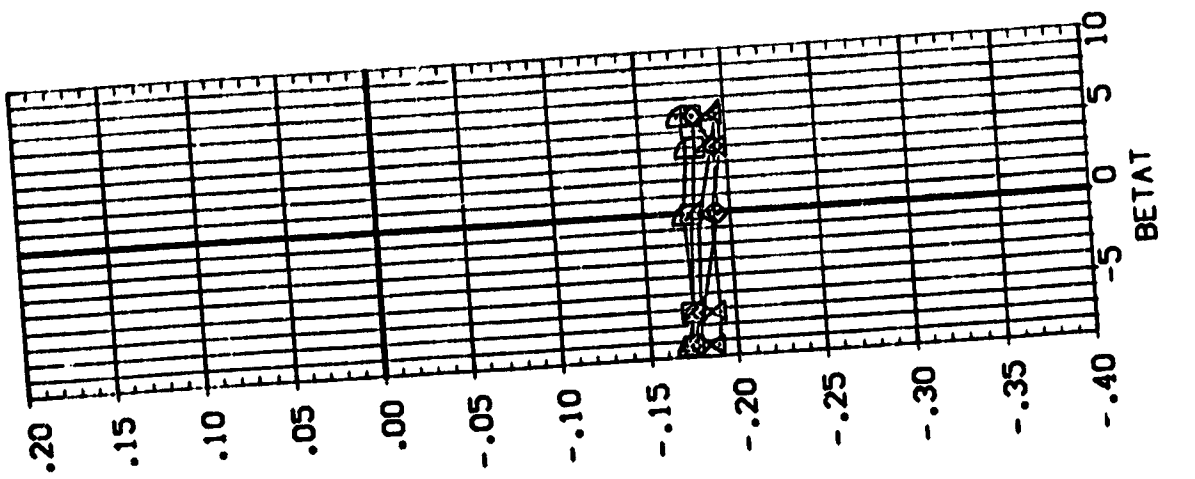
ALPHAAT
RUDDER
RUDFLR

ORBITAL
ELEVON

AMES 97-707 1A9 02A + 53 4 1 J 0

PHI
X/LNP
MACH

SYMBOL
○
◇
△
▽
□



UPPER MPS NOZZLE PRESSURES

AMES 97-707 1A9 02A + S3 + T9 OMS NOZZLE

(RBCEC:)

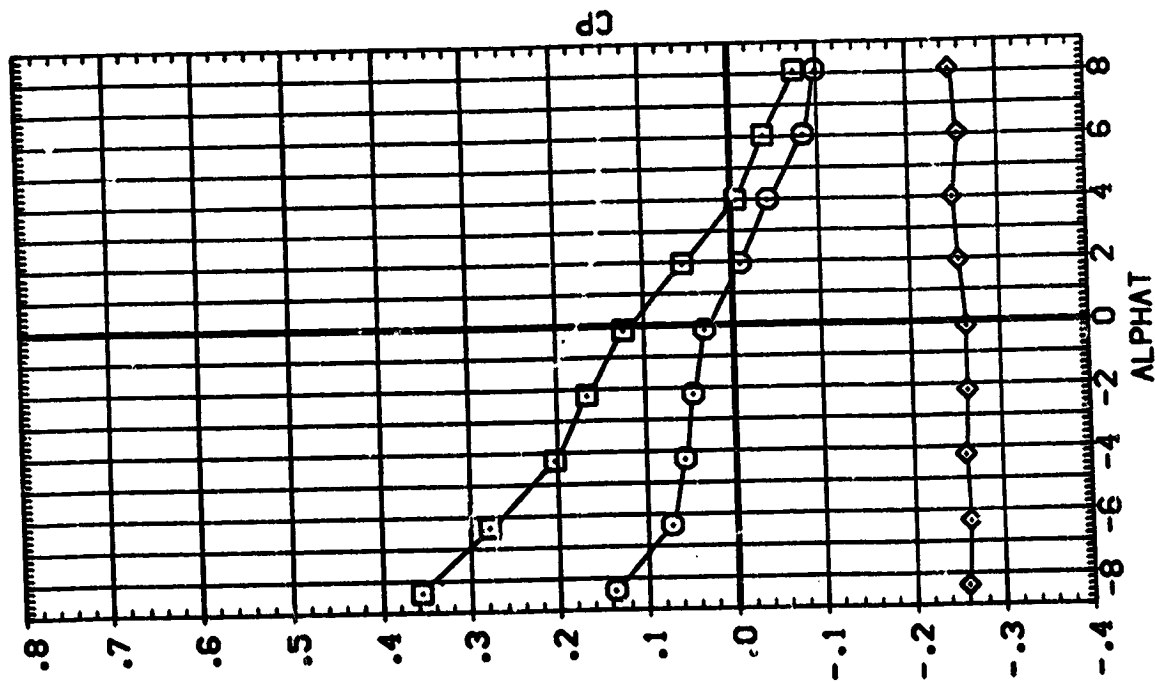
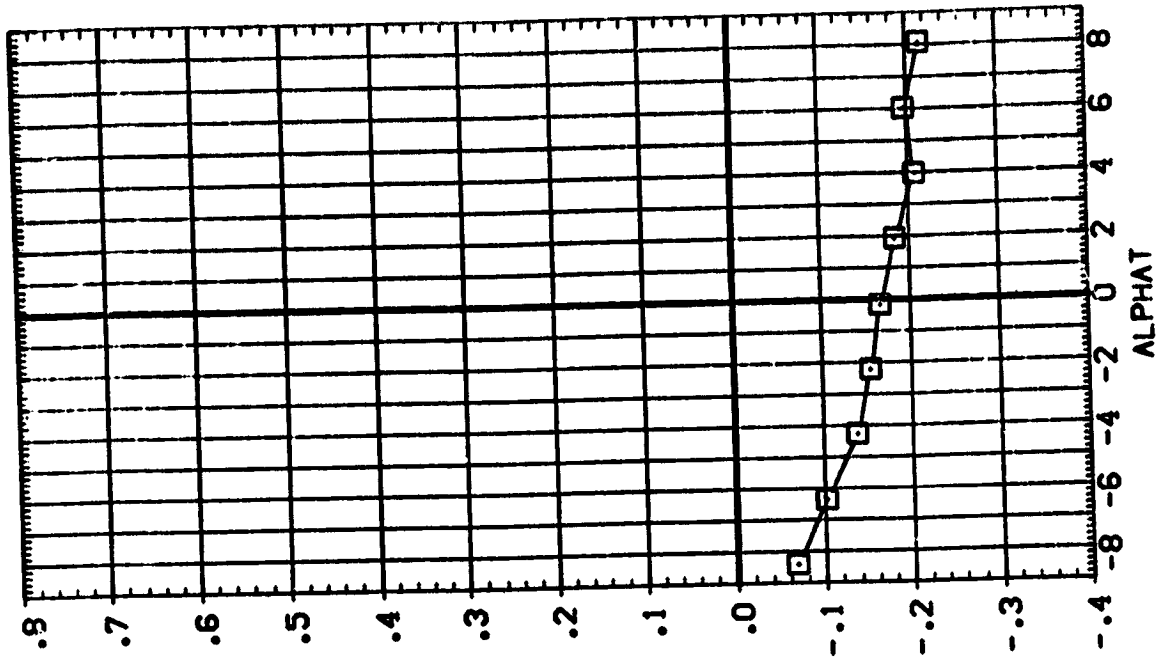
SYMBOL
○ □ ◇

PHI
135.000
180.000
225.000

X/LNH
.200
.400

MACH
1.555

PARAMETRIC VALUES
SETAT .000 C3BINC .500
R.ODER .000 ELEVON .000
R.3FLR .000



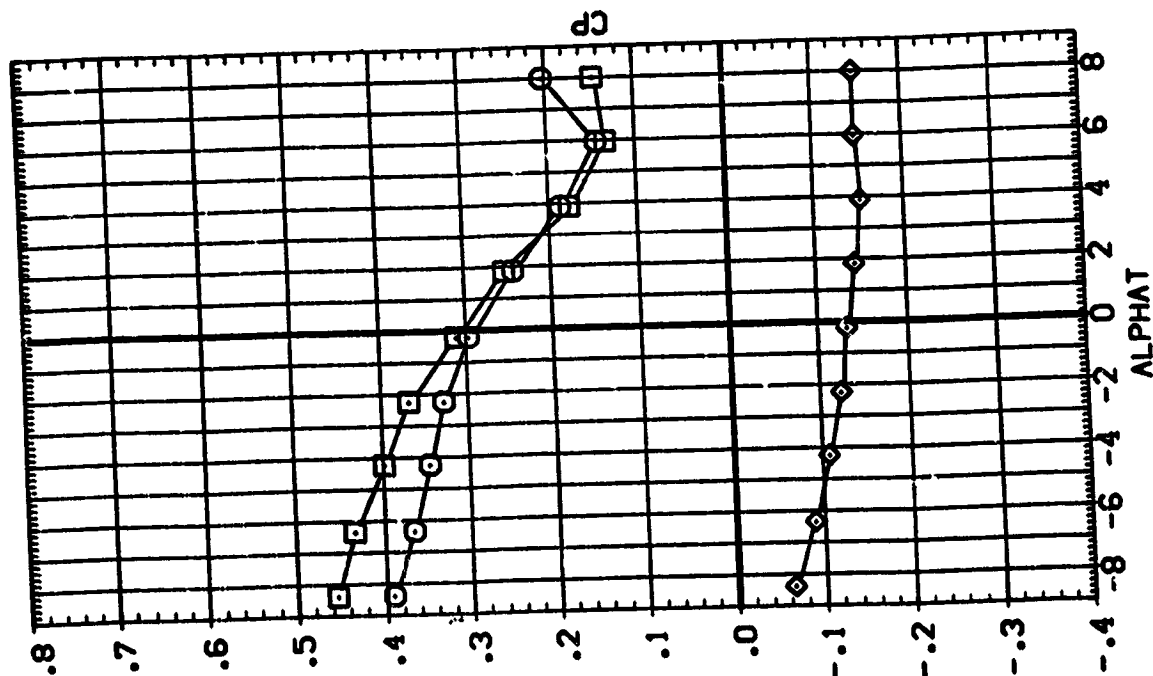
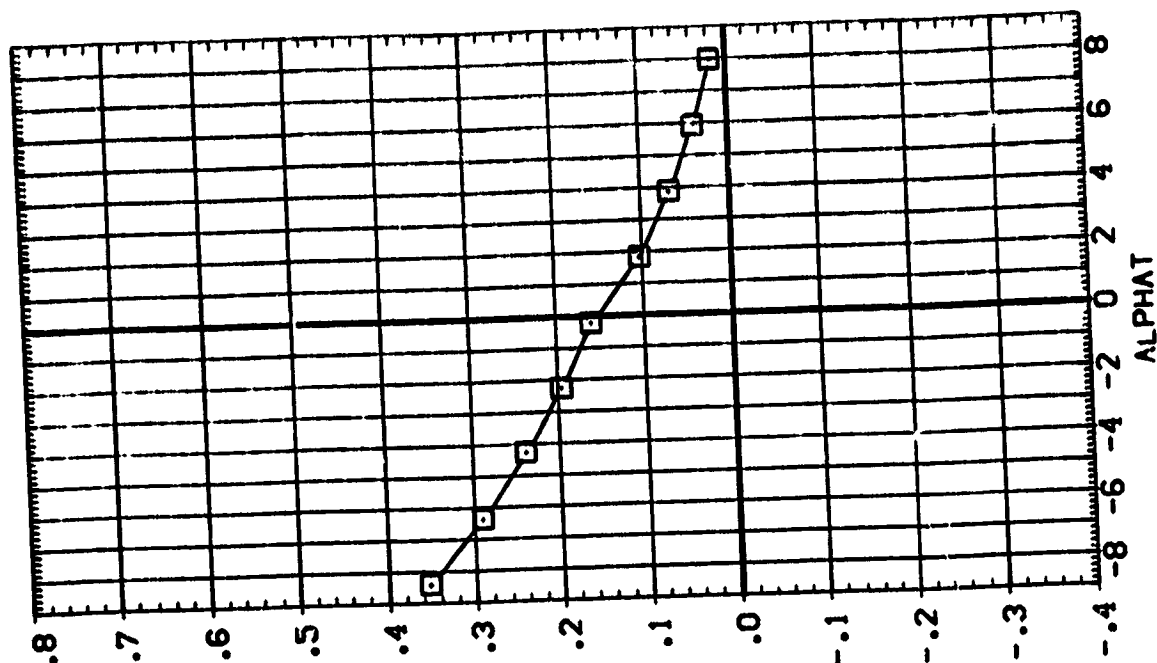
OMS NOZZLE PRESSURES

(RBOEO:)

AMES 97-707 1A9 02A + S3 + T9 QMS NOZZLE

SYMBOL PHI X/LIN MACH
□ 135.000 .200 2.000
◇ 180.000 .400 2.000
◇ 225.000 .400 2.000

PARAMETRIC VALUES
BETAT .000 DRBINC .500
RJOER .000 ELEVON .000
RJOFLR .000 .000



QMS NOZZLE PRESSURES

AMES 97-707 1A9 02A + S3 + T9 QMS NOZZLE

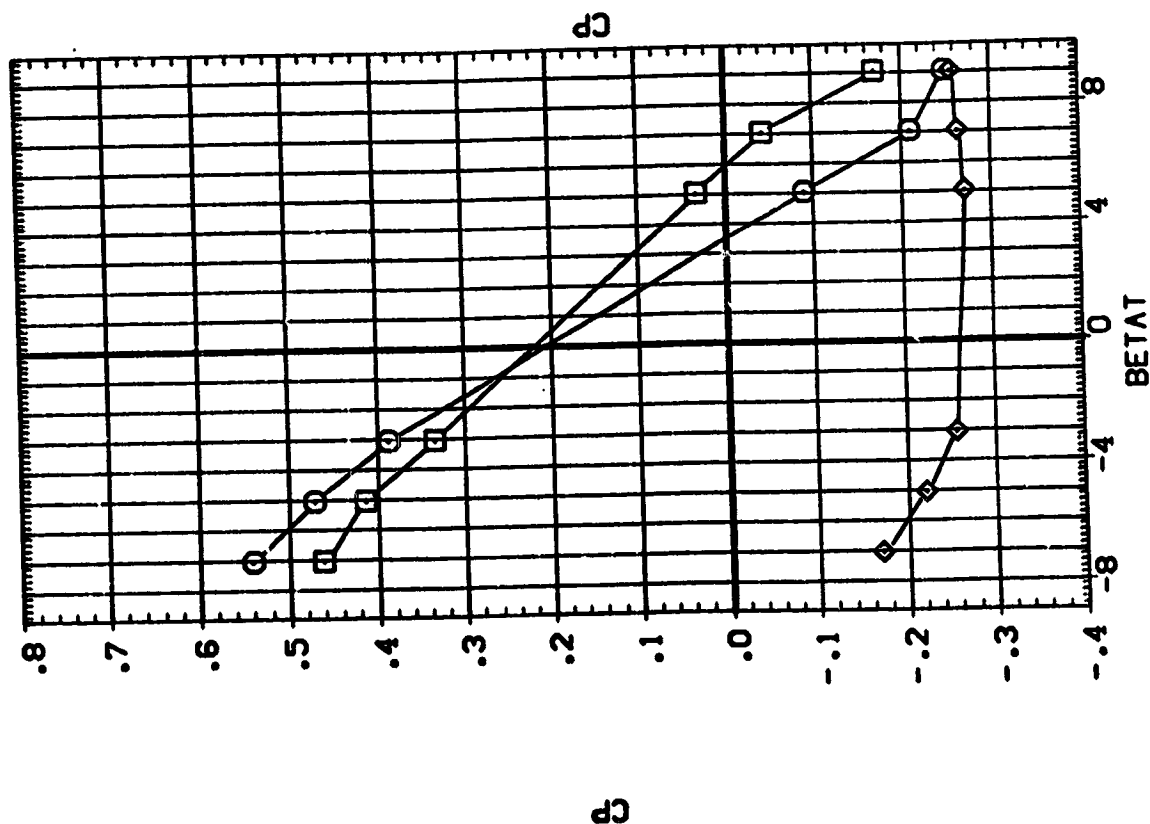
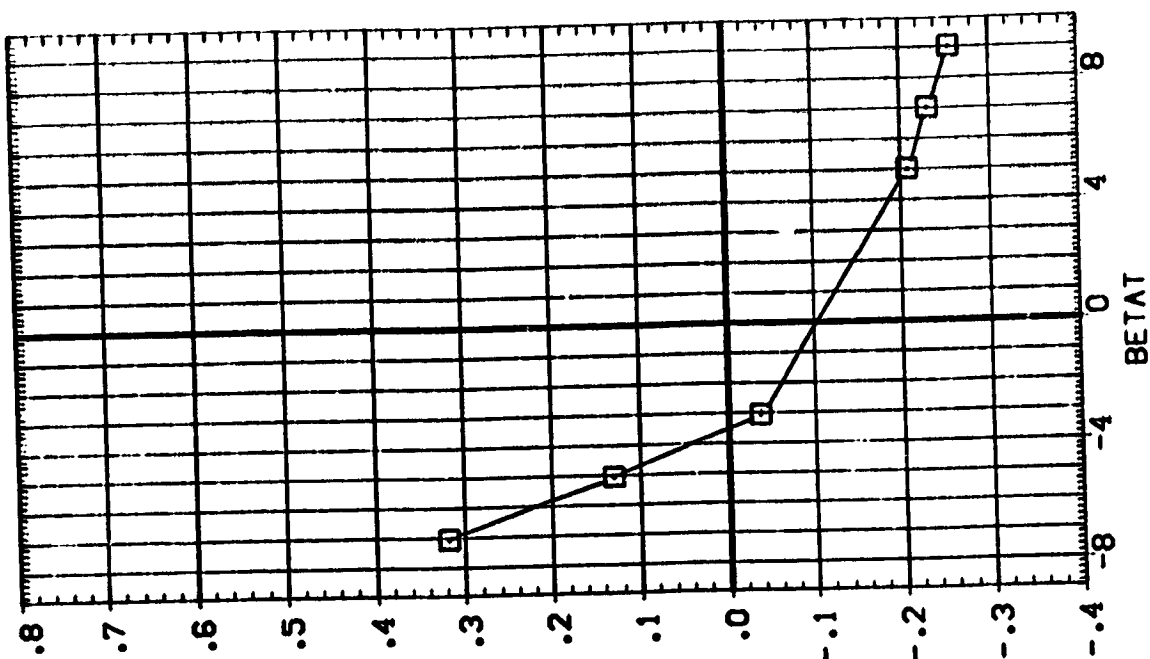
(RBOE06)

SYMBOL
 ○ □ ◇

PHI
 135.000
 180.000
 225.000

X/LM1 MACH
 .200 1.555
 .400

PARAMETRIC VALUES
 ALPHAAT .000 ORBITINC .500
 RJOER .000 ELEVON .000
 RJOFLR .000



QMS NOZZLE PRESSURES

(RBOED6)

AMES 97-707 1A9 02A + S3 + T9 OMS NOZZLE

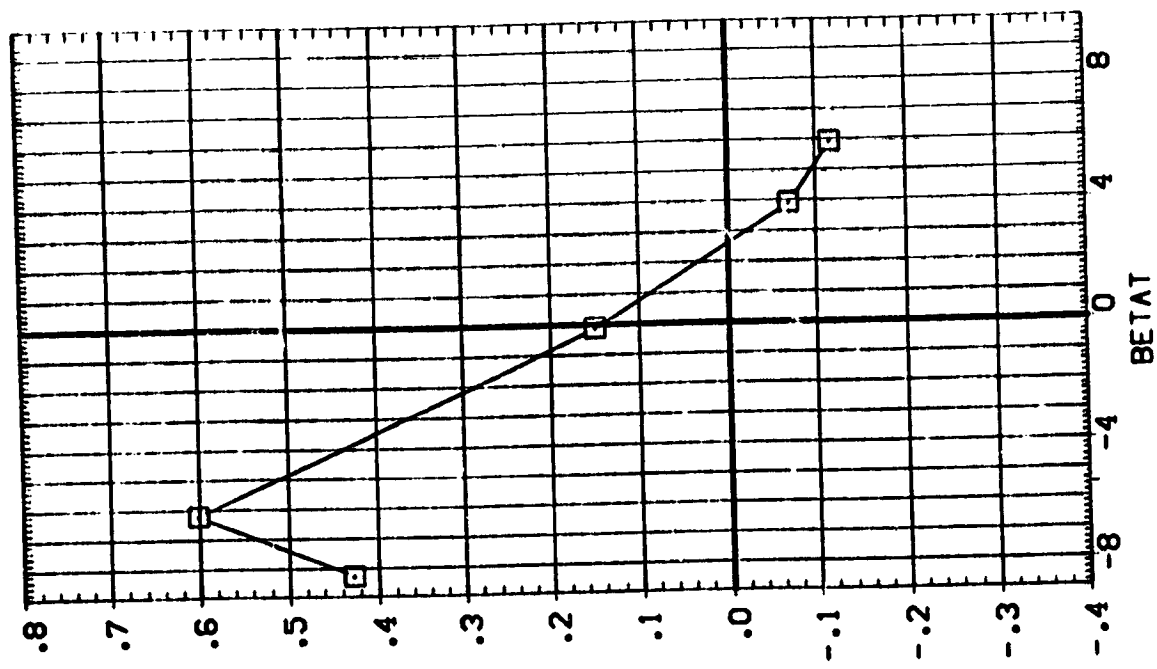
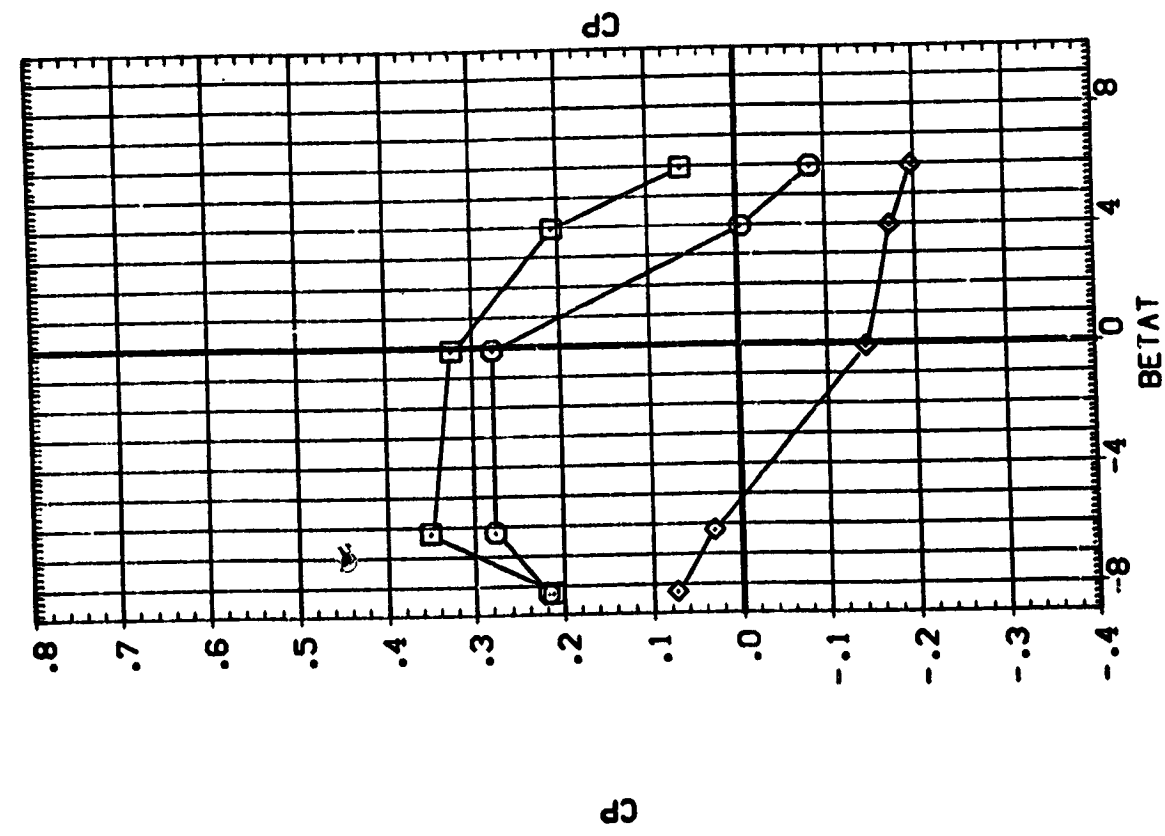
SYMBOL
□
◇

PMI
135.000
180.000
225.000

X/LIN
.200
.400

MACH
2.000

PARAMETRIC VALUES
ALPHAT .000 ORBINC .500
RUDDER .000 ELEVON .000
RUDDL R



OMS NOZZLE PRESSURES



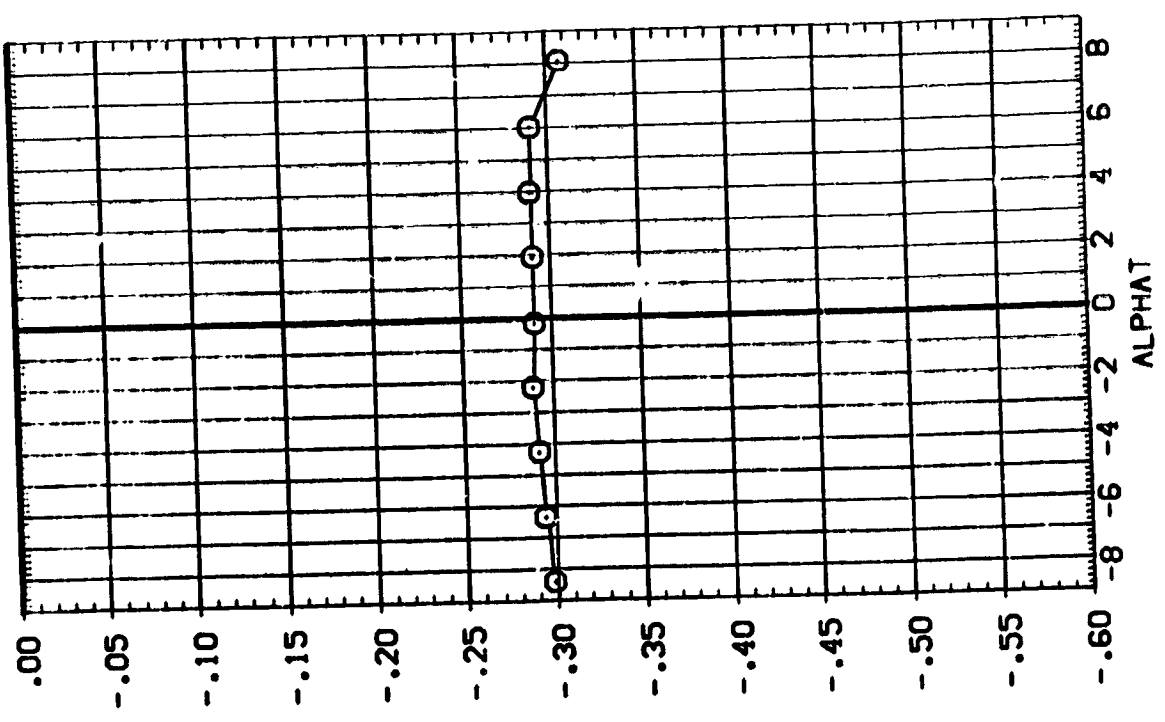
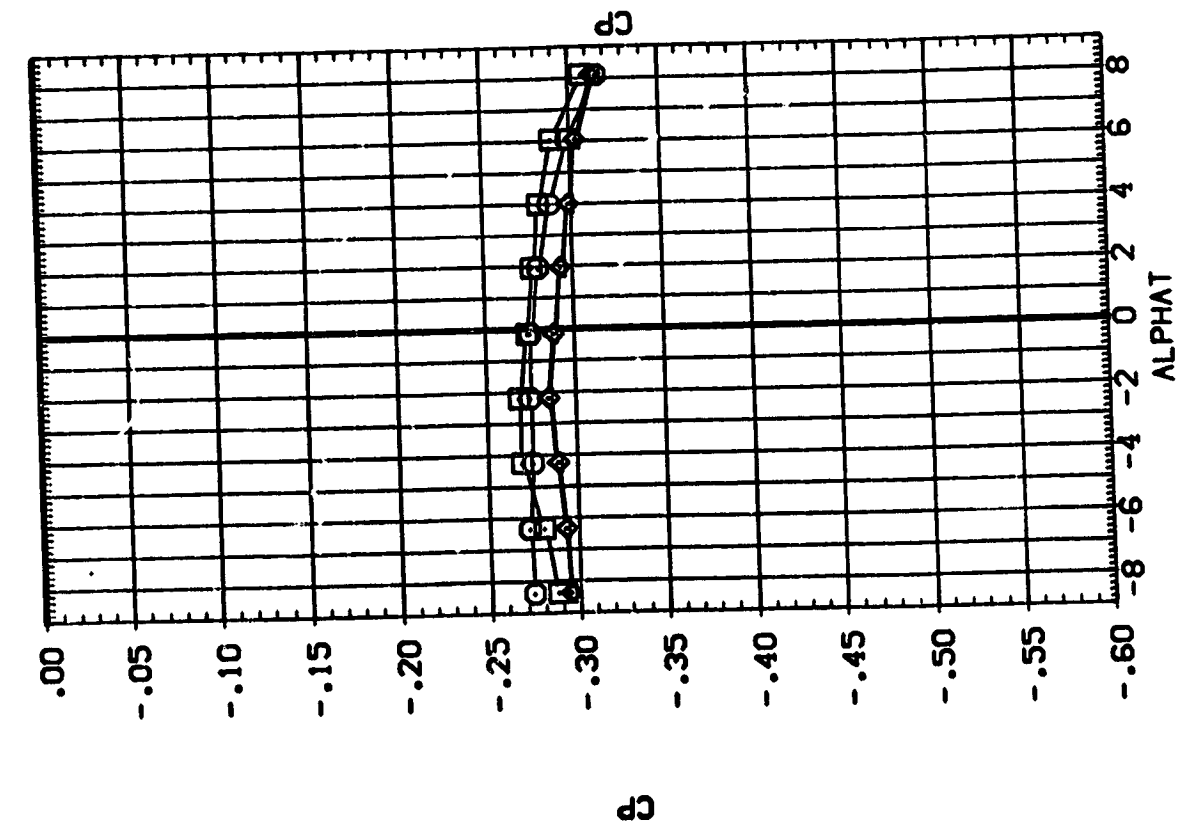
AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER BASE (RBO001)

SYMBOL
○
□
◇
△

PHI
.000
90.000
180.000
270.000

X/LS MACH
.985 1.555
1.000

PARAMETRIC VALUES
BETAT .000 ORBINC .500
RUDER .000 ELEVON .000
RUFLR .000



SRM BOOSTER BASE PRESSURES

AMES 97-707 IAS 02A + S3 + T9 SRM BOOSTER BASE (RBCX01)

SYMBOL

PHI
.000
90.000
180.000
270.000

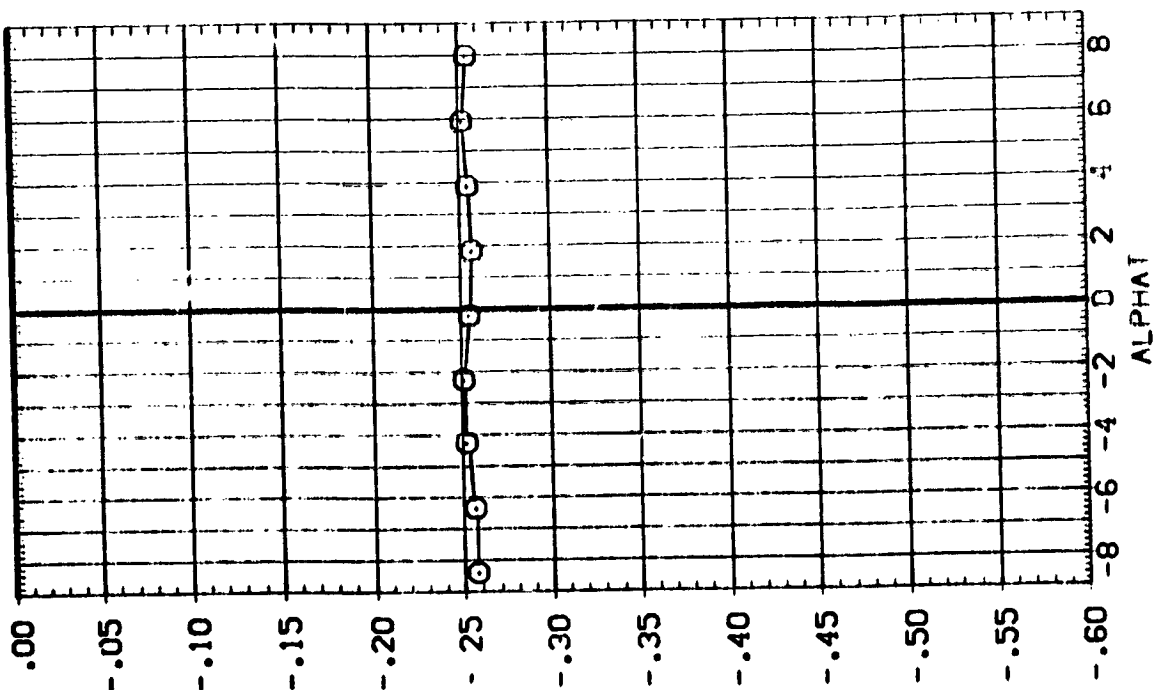
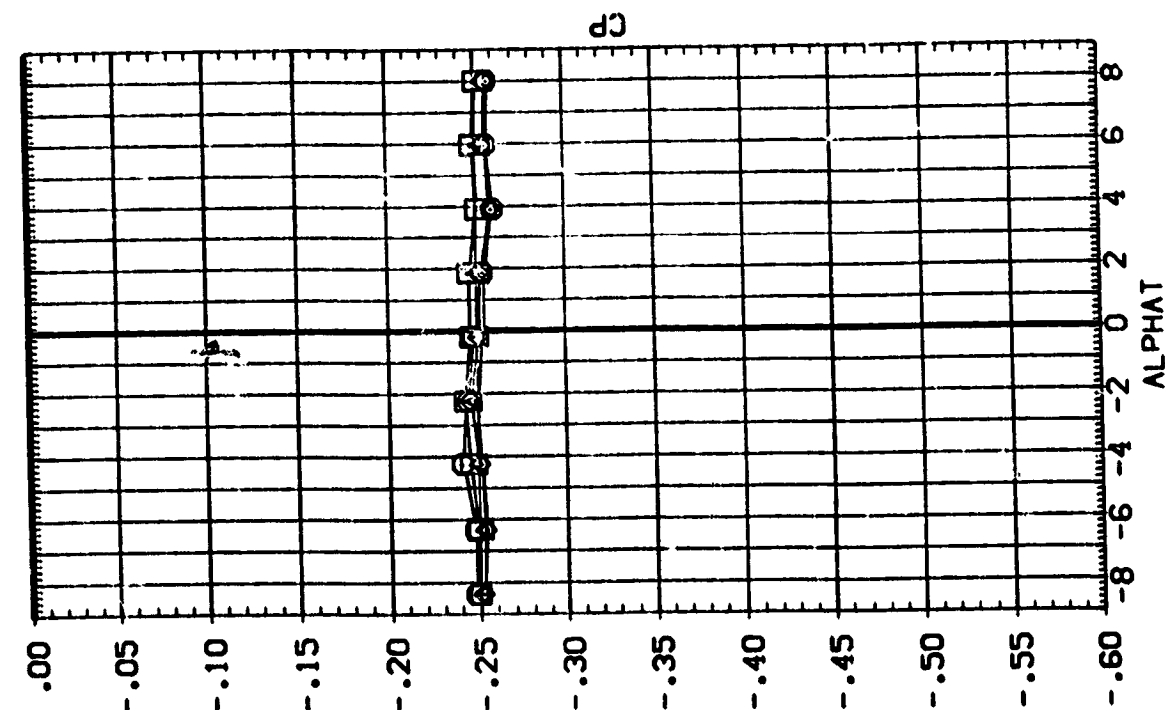
XALS
.985
1.000

MACH
2.000

PARAMETRIC VALUES

BETAT
RUDER
RUFELR

.500
.000
.000
.000



SRM BOOSTER BASE PRESSURES

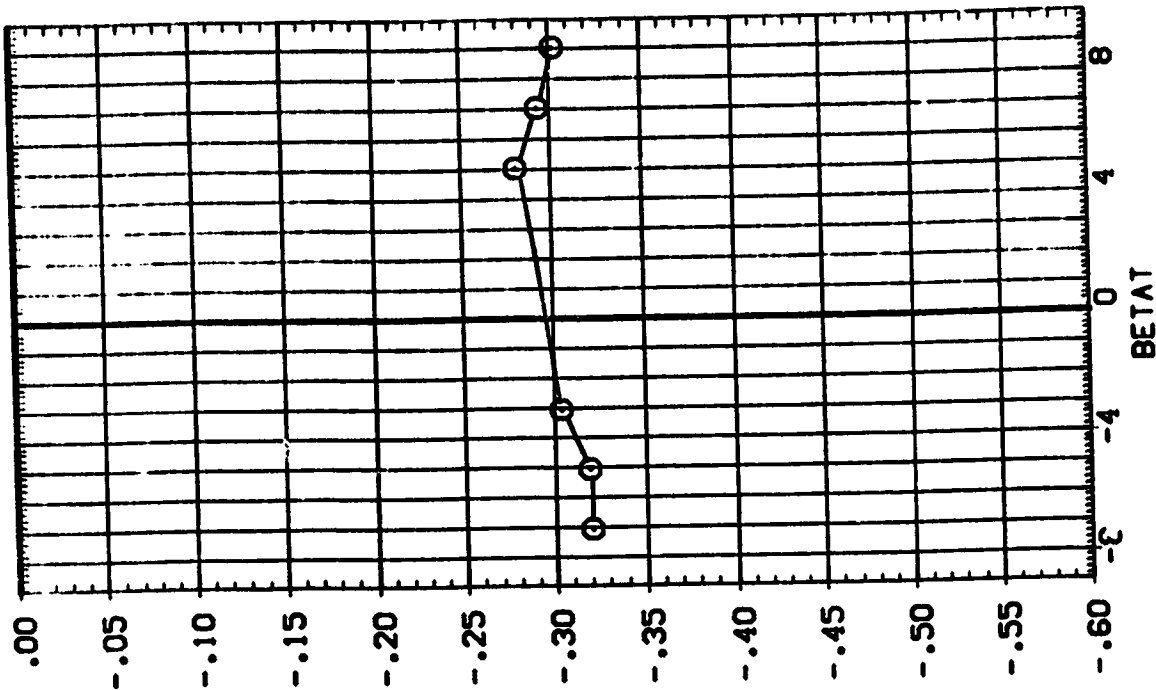
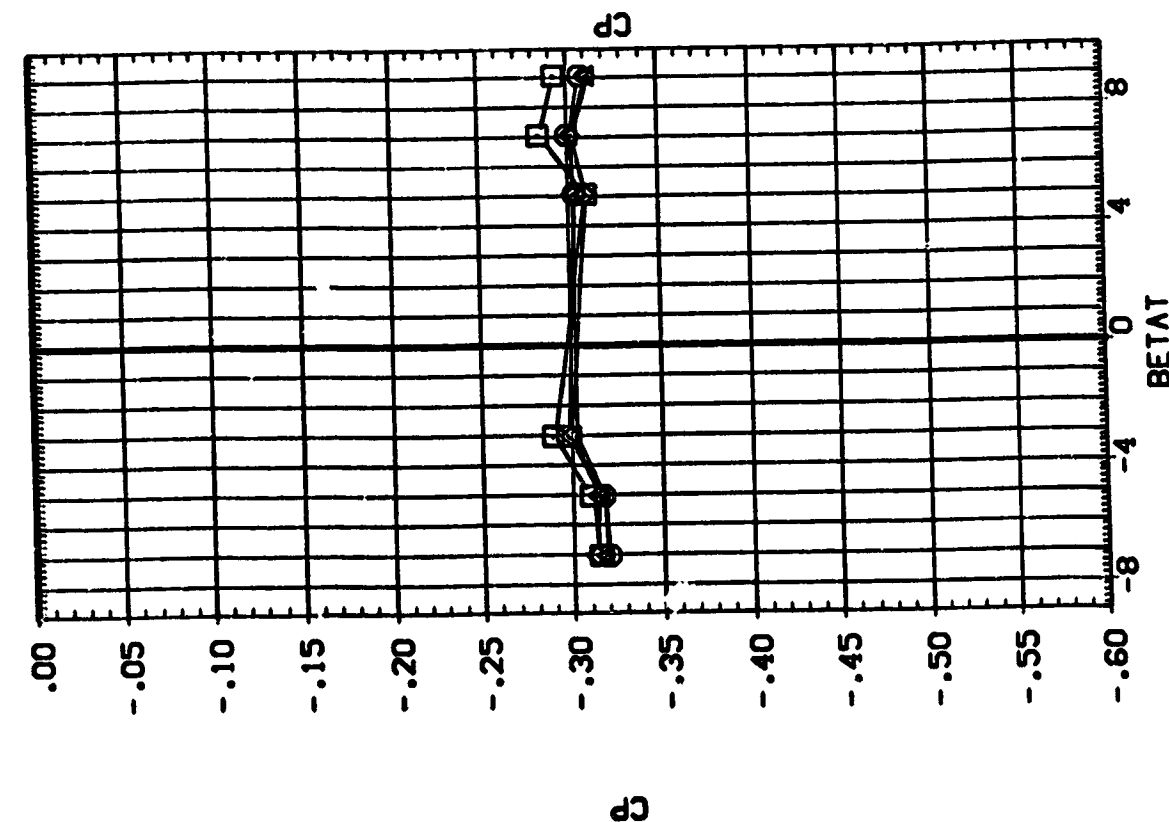
AMES 97-707 1A9 02A + S3 + T9 SRM BOOSTER BASE (RBOX06)

SYMBOL
 ○
 □
 ◇
 △

PHI
 .000
 90.000
 180.000
 270.000

X/L S MACH
 .985 1.555
 1.000

PARAMETRIC VALUES
 ALPHAT .000
 RUDDER .000
 RUOFLR .000
 .500
 .000
 ELEVEN

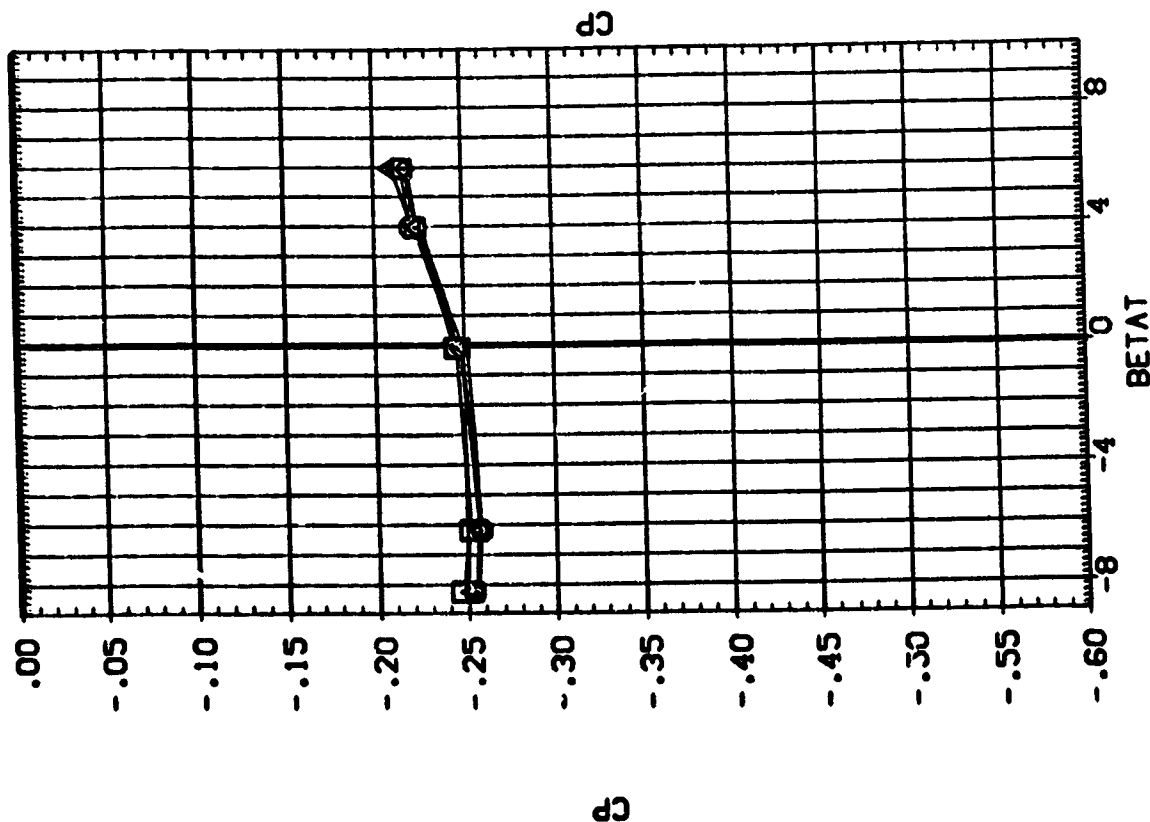
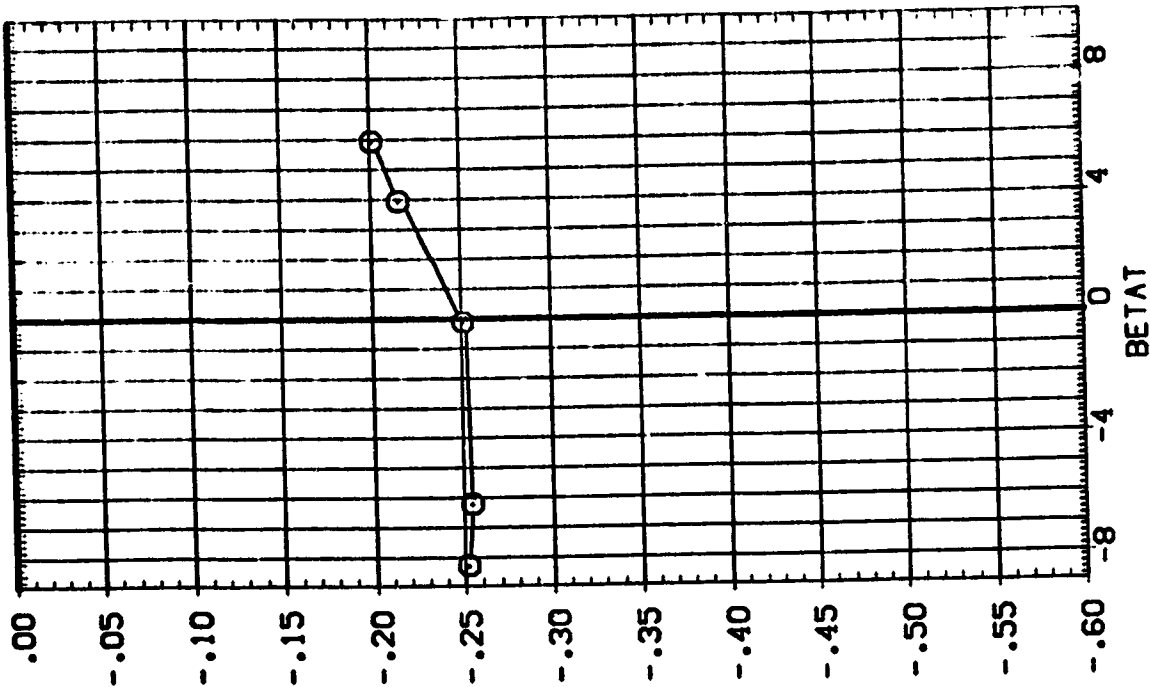


SRM BOOSTER BASE PRESSURES

SYMBOL PH1
 0 .000
 1 50.000
 2 100.000
 3 270.000

X/L S MACH
 .985 2.000
 1.000

PARAMETRIC VALUES
 ALPHA: .000
 R/OFF: .000
 ELEV: .500
 R/OFF: .000



SRM BOOSTER BASE PRESSURES

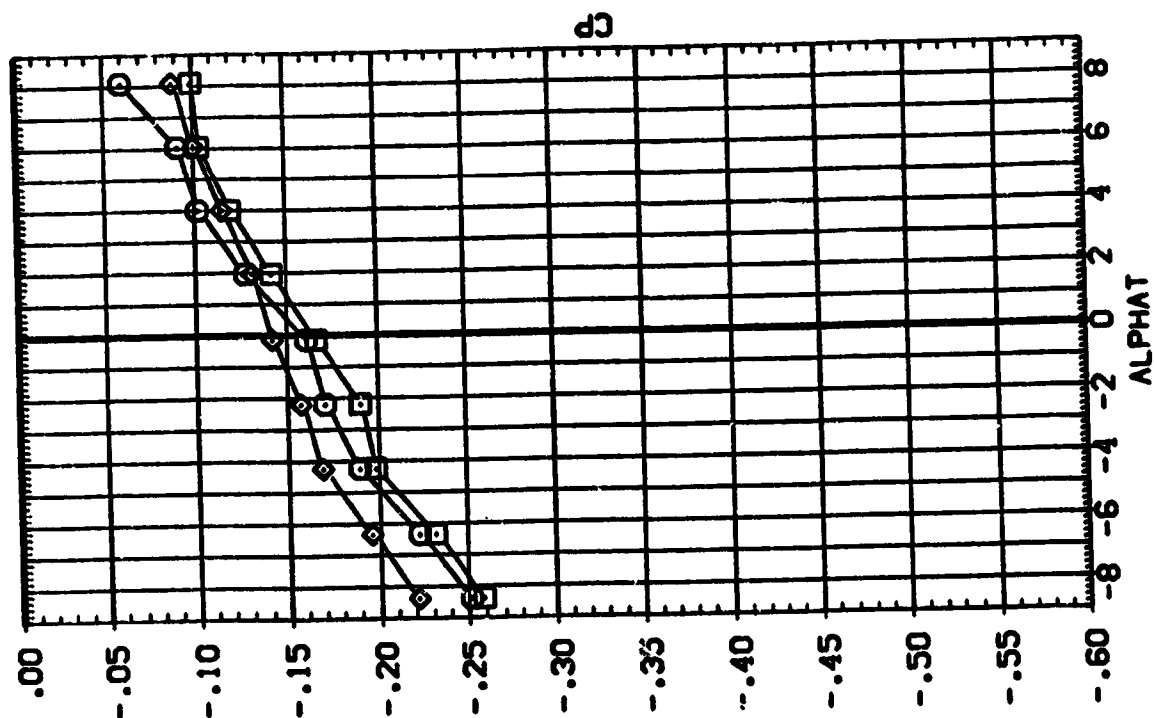
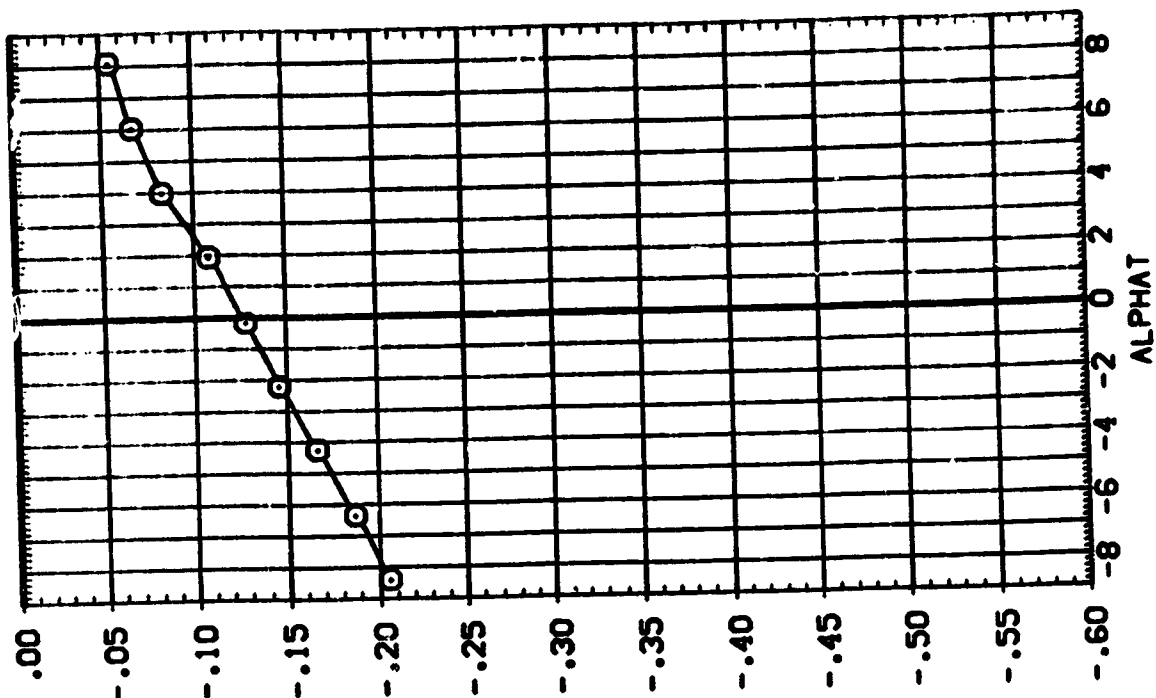
AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK BASE (RBOYO1)

SYMBOL
 ○ □ ◇

PHI
 .000
 90.000
 180.000

X/LT MACH
 .977 1.555
 1.000

PARAMETRIC VALUES
 BETAT .000 ORBINC .500
 RUDDER .000 ELEVEN .000
 RUOFLR .000



EXTERNAL TANK BASE PRESSURES

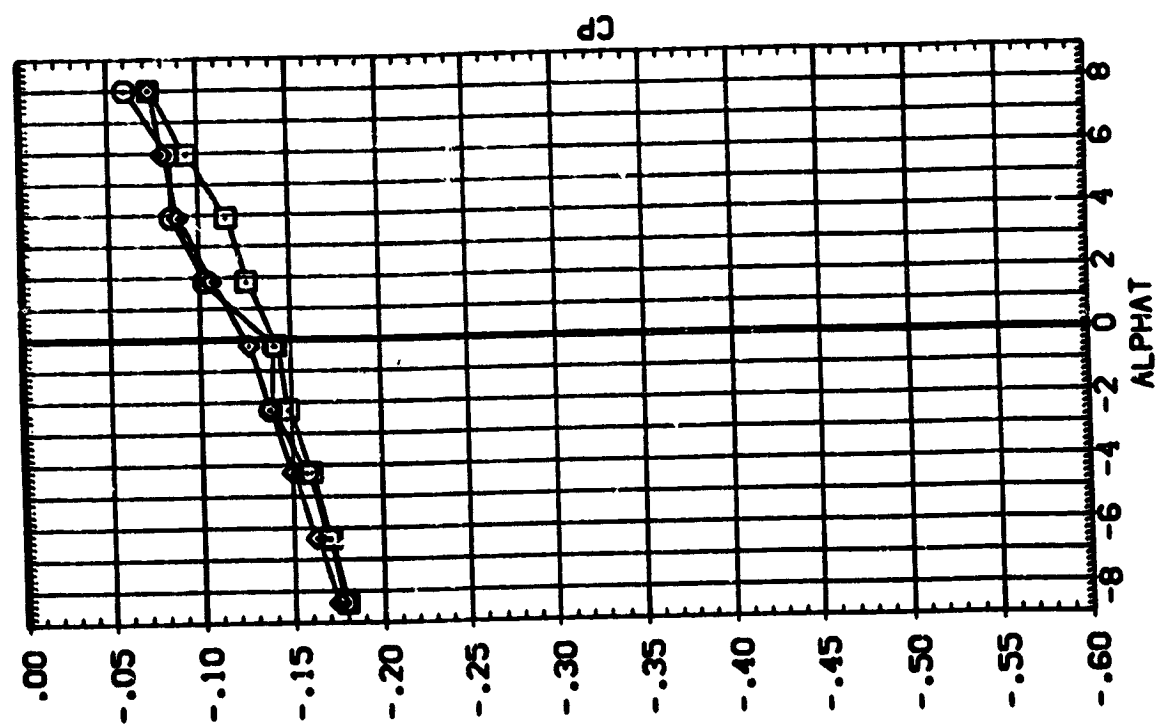
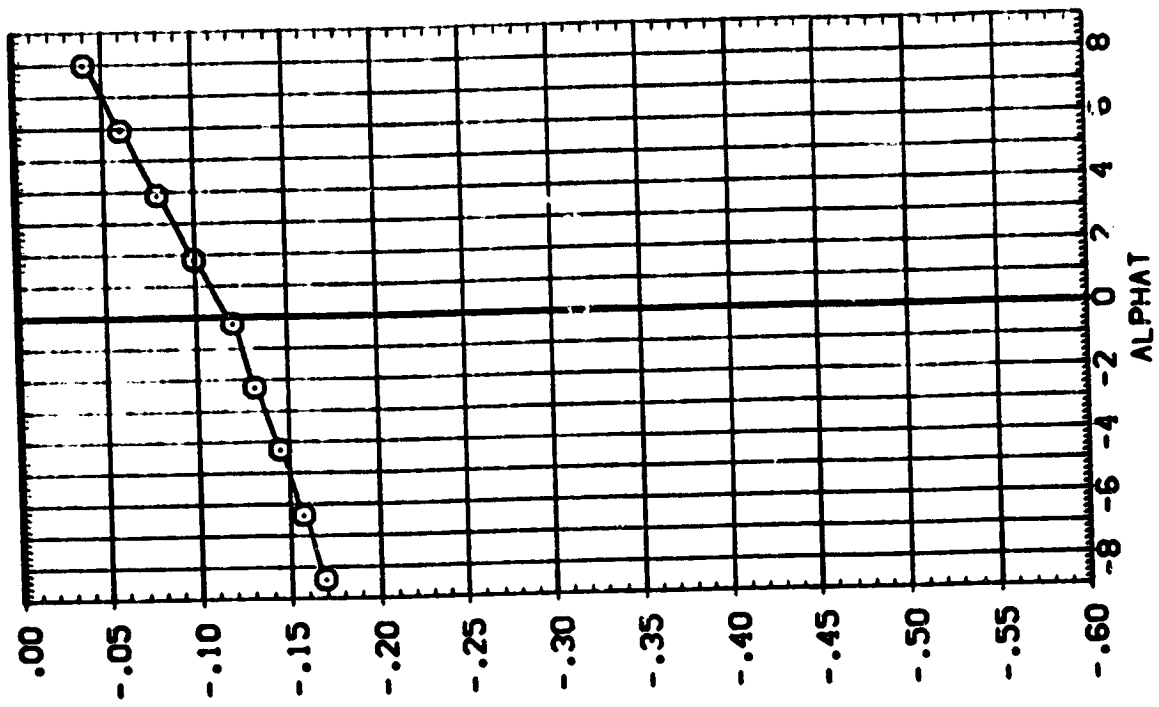
AMES 97-707 1A9 Q2A + S3 + T9 EXTERNAL TANK BASE (RBOYC:)

SYMBOL
 ○ □ ◇

PHI
 .000
 90.000
 180.000

X/LT MACH
 .577 2.000
 1.000

PARAMETRIC VALUES
 BETA* .000 .500
 RUDDER .000 .000
 RUSTLR .000 .000



EXTERNAL TANK BASE PRESSURES

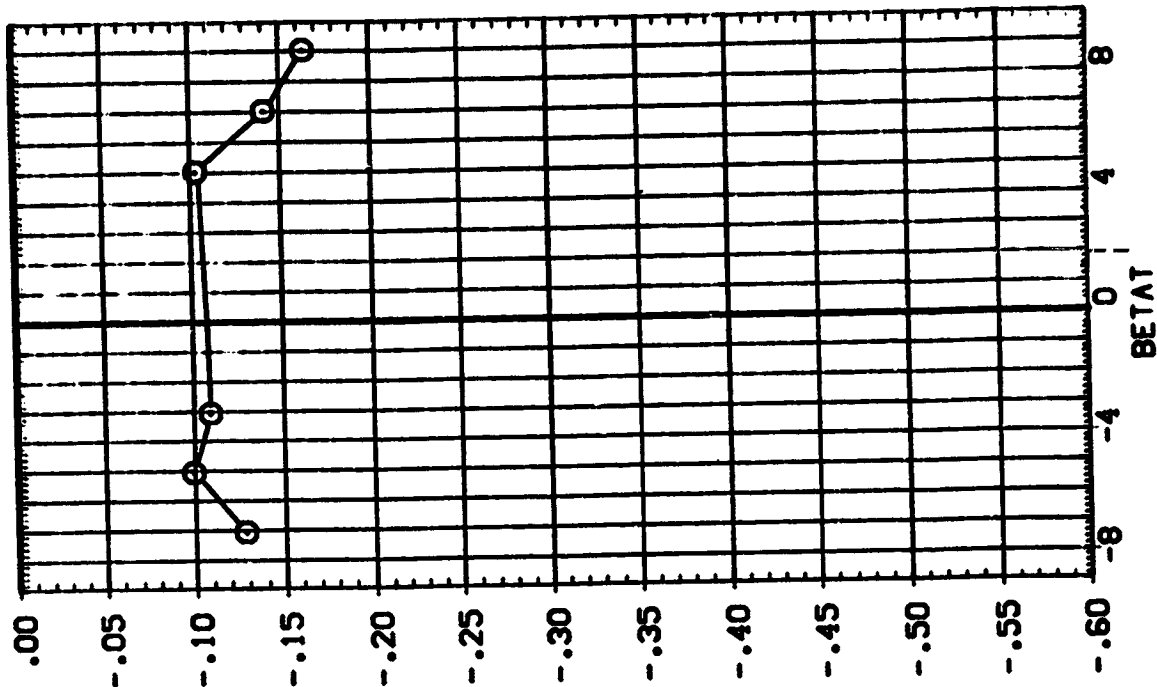
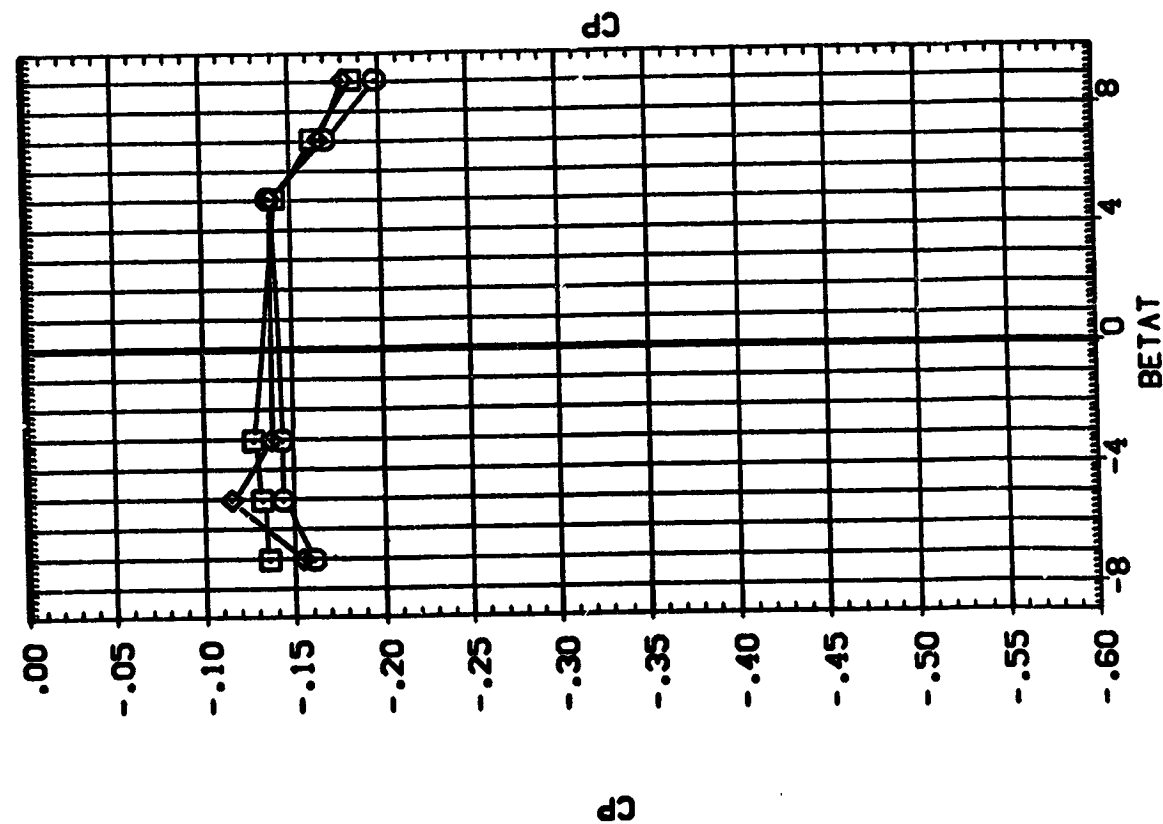
AMES 97-707 1A9 02A + S3 + T9 EXTERNAL TANK BASE (RBOYC6)

SYMBOL
 ○ □ ◇

PHI
 .000
 90.070
 180.000

X/LT MACH
 .977 1.595
 1.000

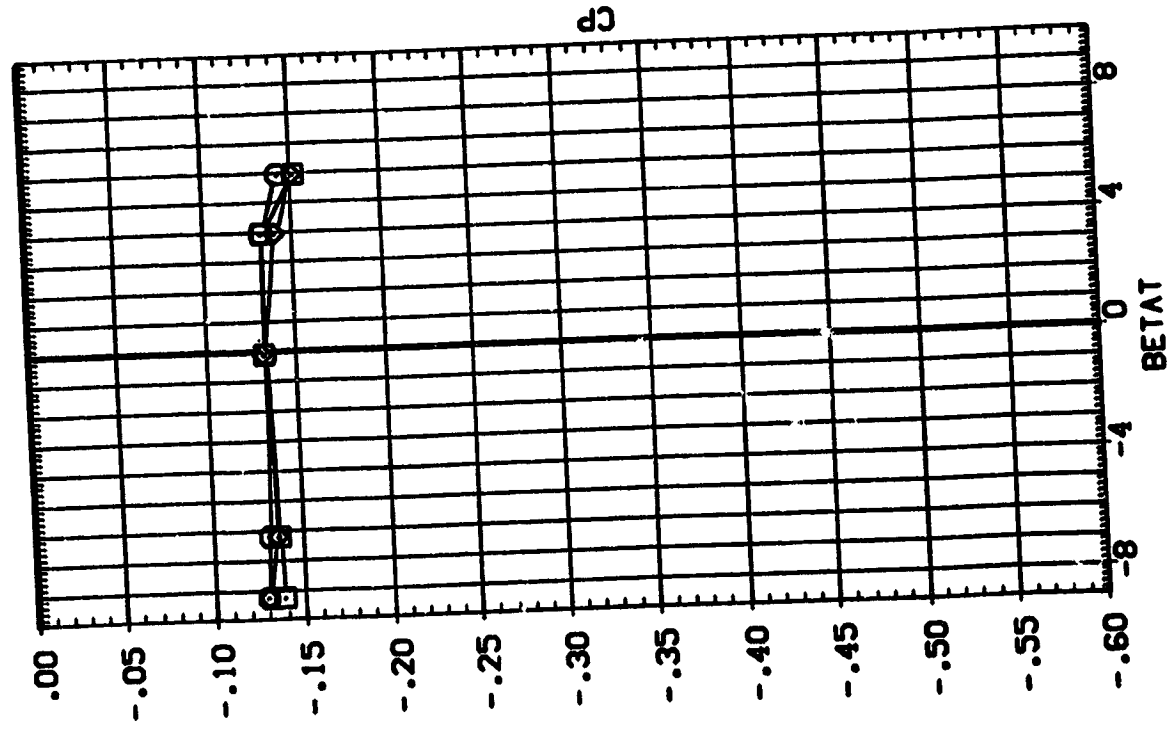
PARAMETRIC VALUES
 ALPHAT .000 ORBINC .500
 RUDDER .000 ELEVON .000
 RZFLR .000



EXTERNAL TANK BASE PRESSURES

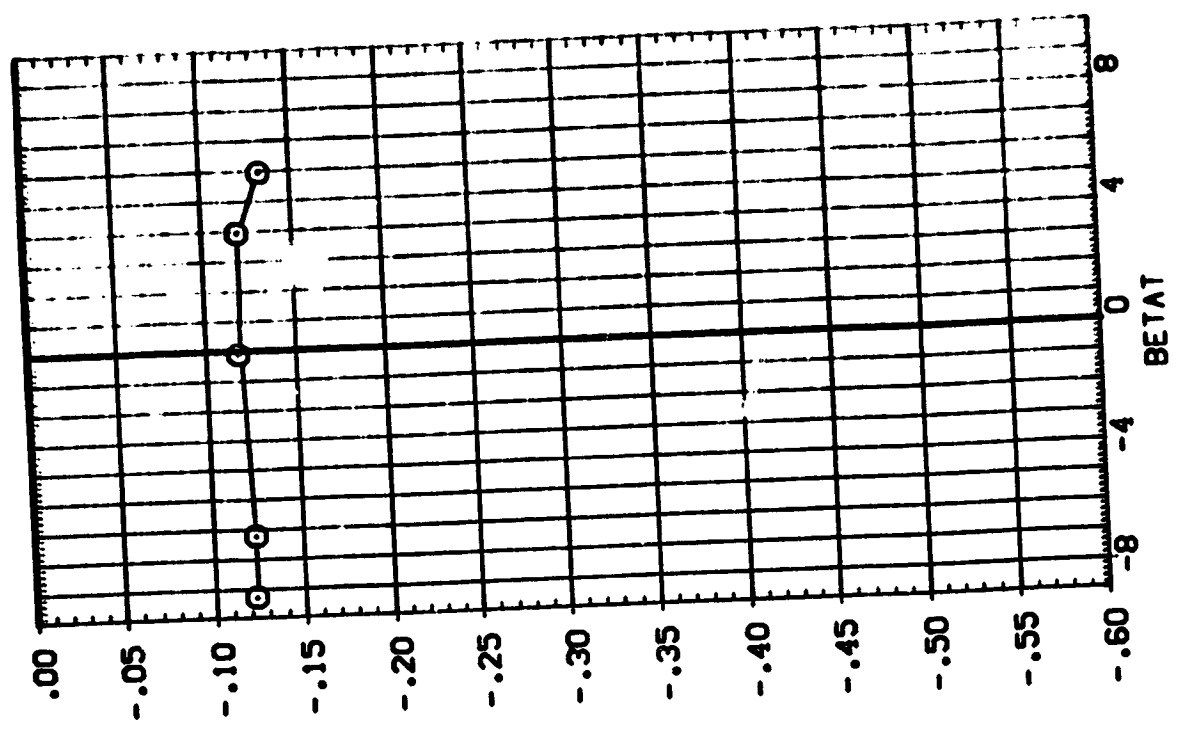
111111

SYMBOL \square \diamond
 PHI .000
 90.000
 180.000
 X/LT .977
 1.000
 MACH 2.000



EXTERNAL TANK BASE PRESSURES

ALPHAT
 RUDER
 RUFLR
 .000
 .000
 .000
 .000
 .000
 .000



AVES 87-707 :A9 C2A + S3 + 19 ORBITER FUSELAGE (RBNBC:)

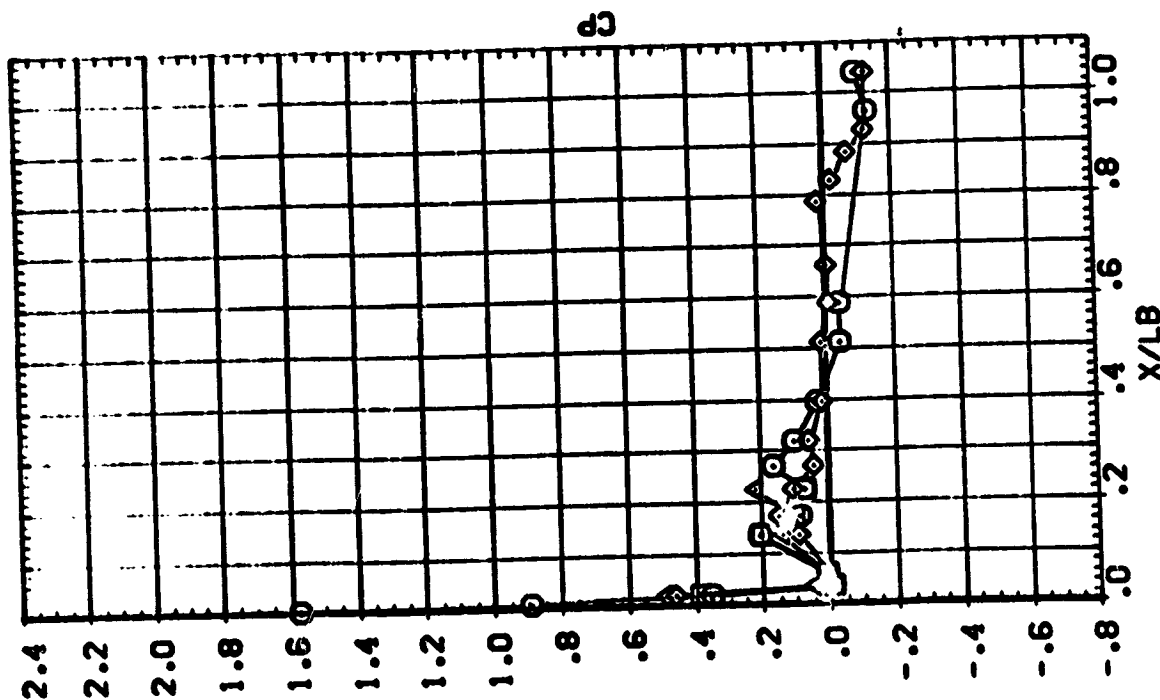
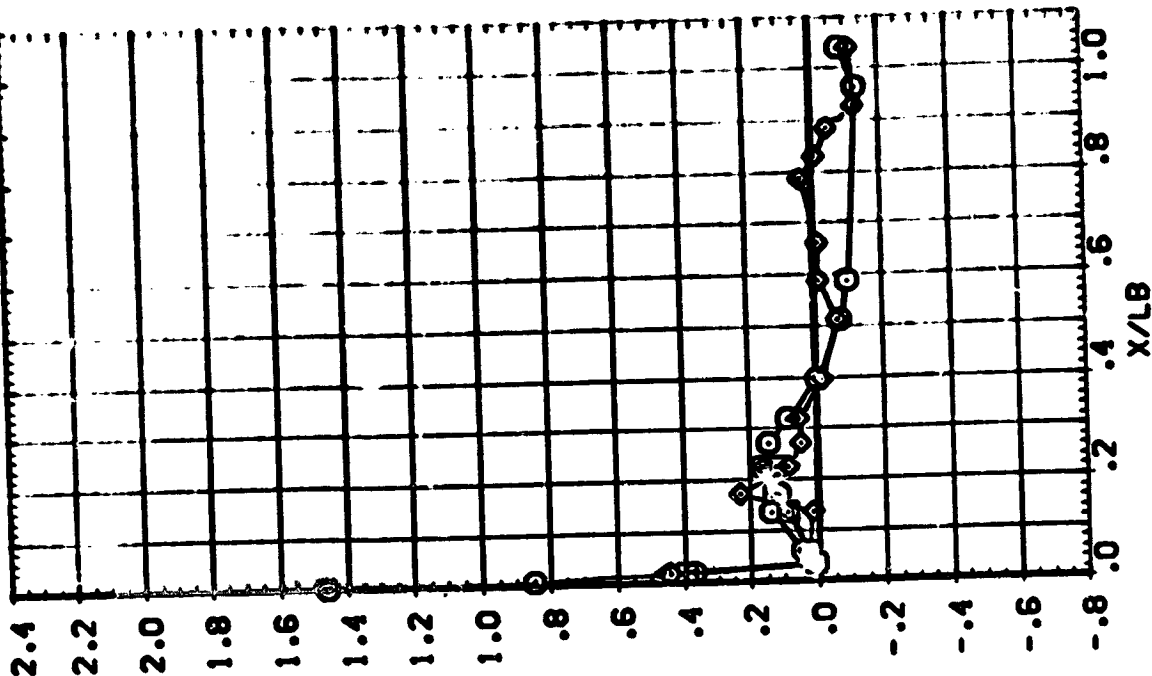
SWSG:
 .000
 70.000
 45.000
 55.000

ALPHAT
 -4.000
 .000

MACH
 2.498

PARAMETER VALUES
 .000
 .000
 .000
 .000

DETAT
 RUJER
 RUJLR



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

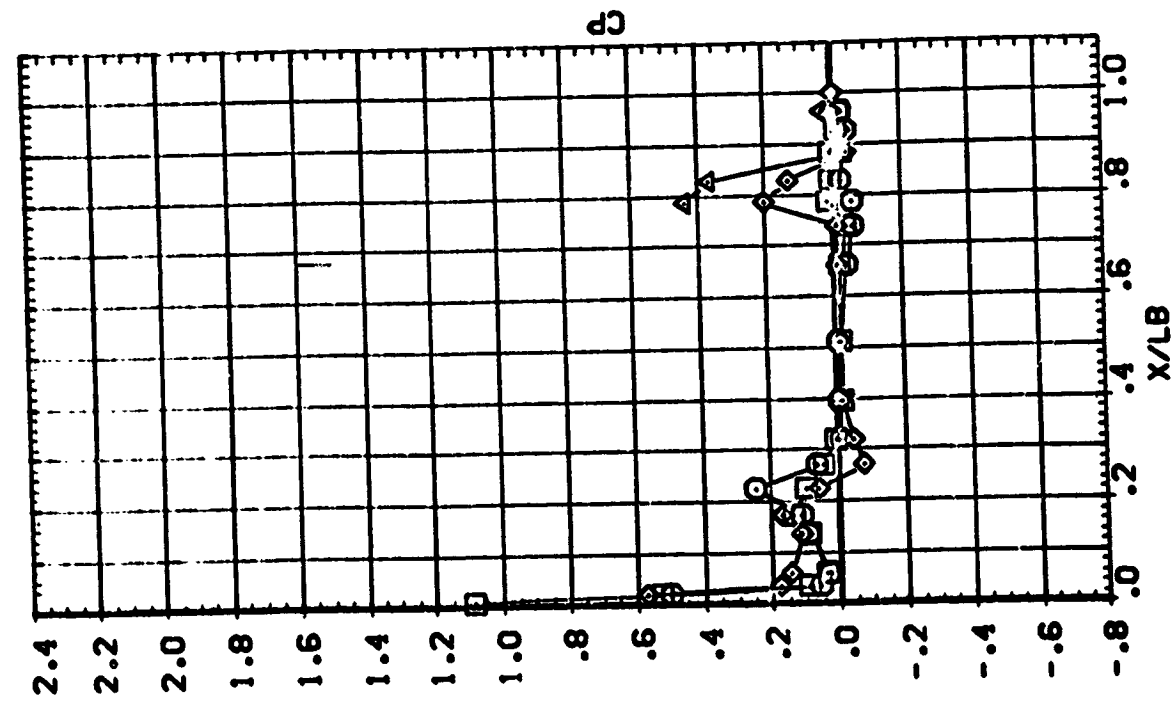
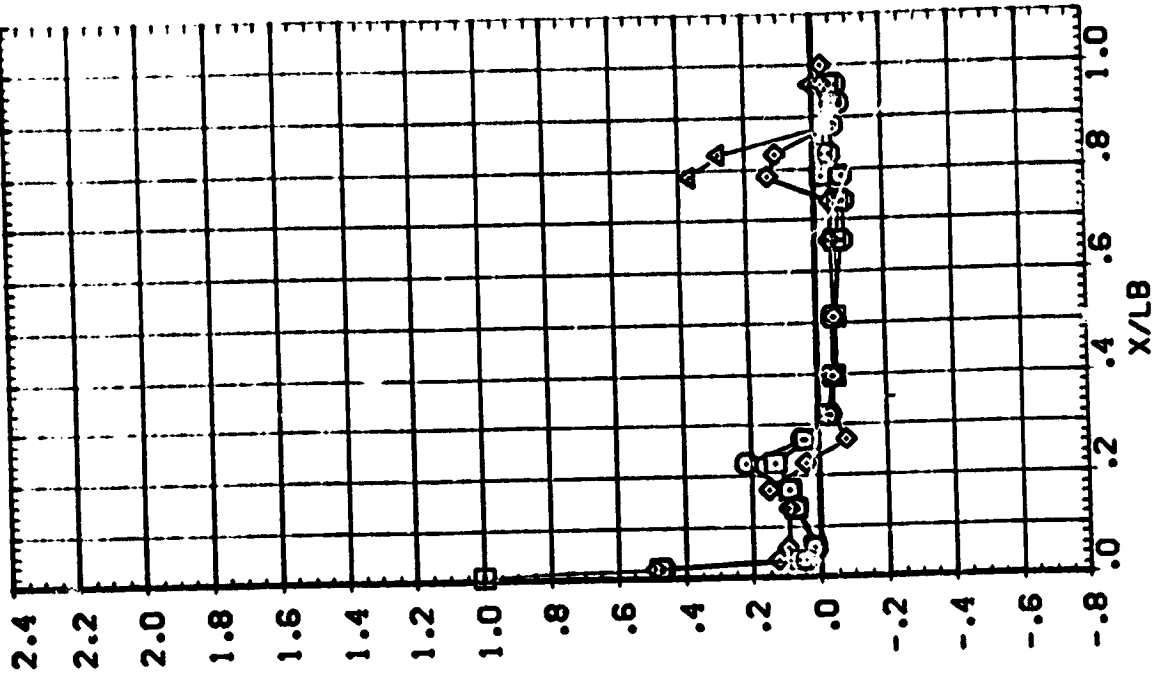
SYMBOL
O I Δ

PM: 70.000
90.000
120.000
150.000

ALPHAT -4.000
WAC 2.498
.000

BETAT
R2J2R
R2J2R

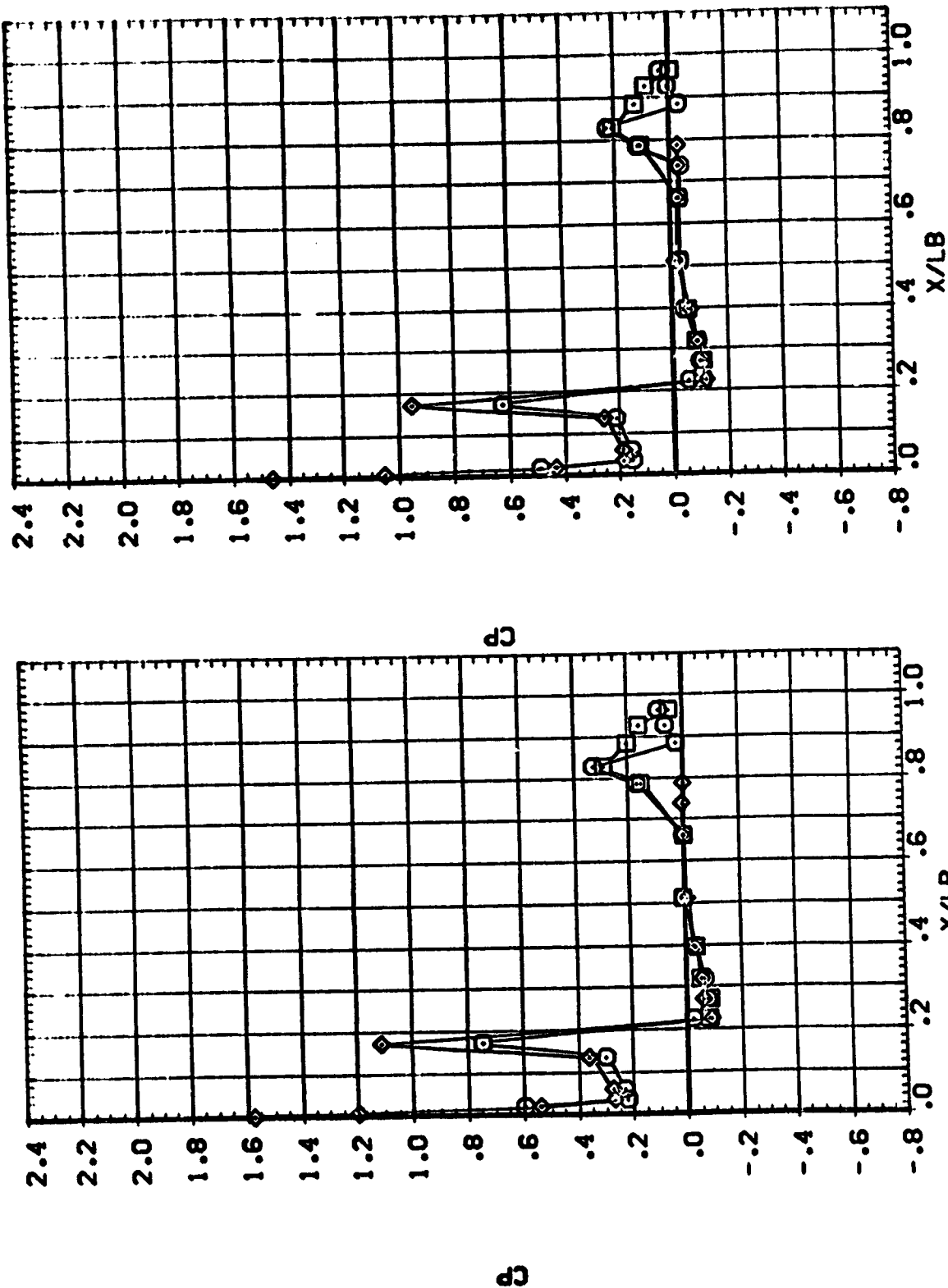
PARAMETRIC VALUES
.000 579:NC
.000 ELEVON
.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 :A9 G2A + S3 + T9 ORBITER FUSELAGE (RBN301)

SYMBOL	RAI	ALPHA	MACH	PARAMETRIC VALUES		
○	150.000	-4.000	2.450	BETAT	ORBITAL	500
□	165.000	.000		RJODER	ELEVON	.000
◇	180.000			RJOFIR		.000



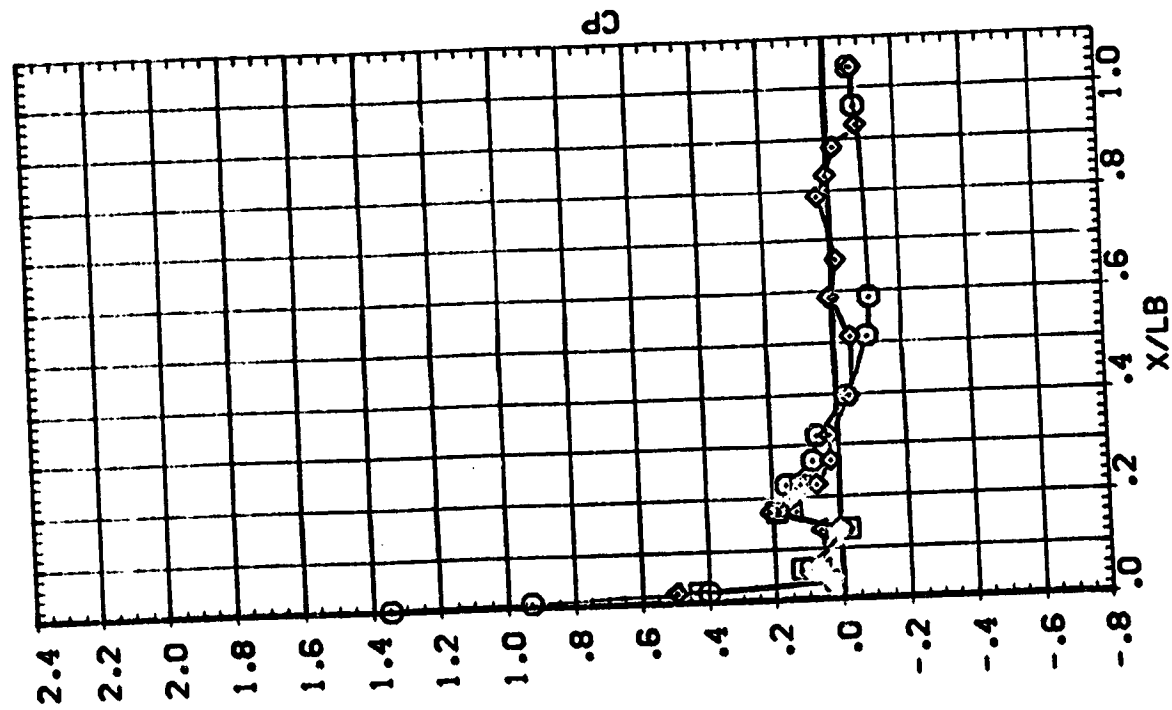
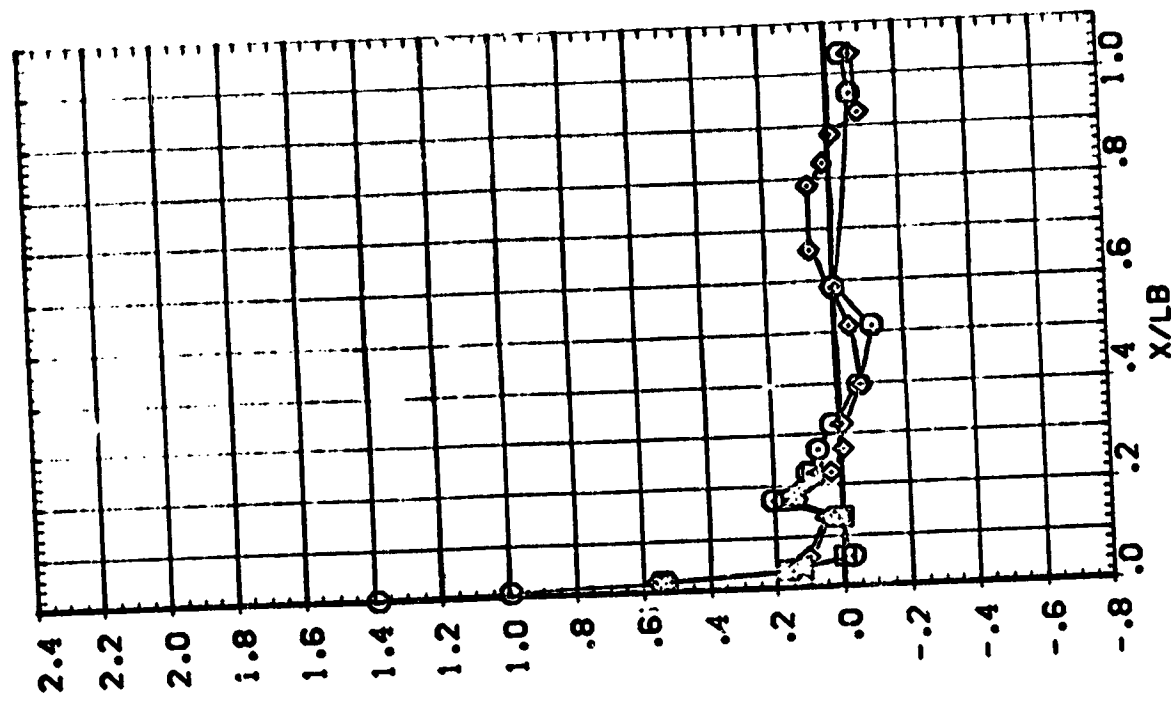
SYNCH
 O I O Δ

PHI .000
 20.000
 40.000
 55.000

ALPHAT 3.900
 8.0:0

MACH 2.498

PARAMETRIC VALUES
 BETA* .000
 RUDDER .000
 RUDDLR .000
 ORG: C .500
 ELEVON .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 :A9 CZA + S3 + '9 ORBITER FUSELAGE (RBN30:)

SYMBOL
 O
 I
 Δ

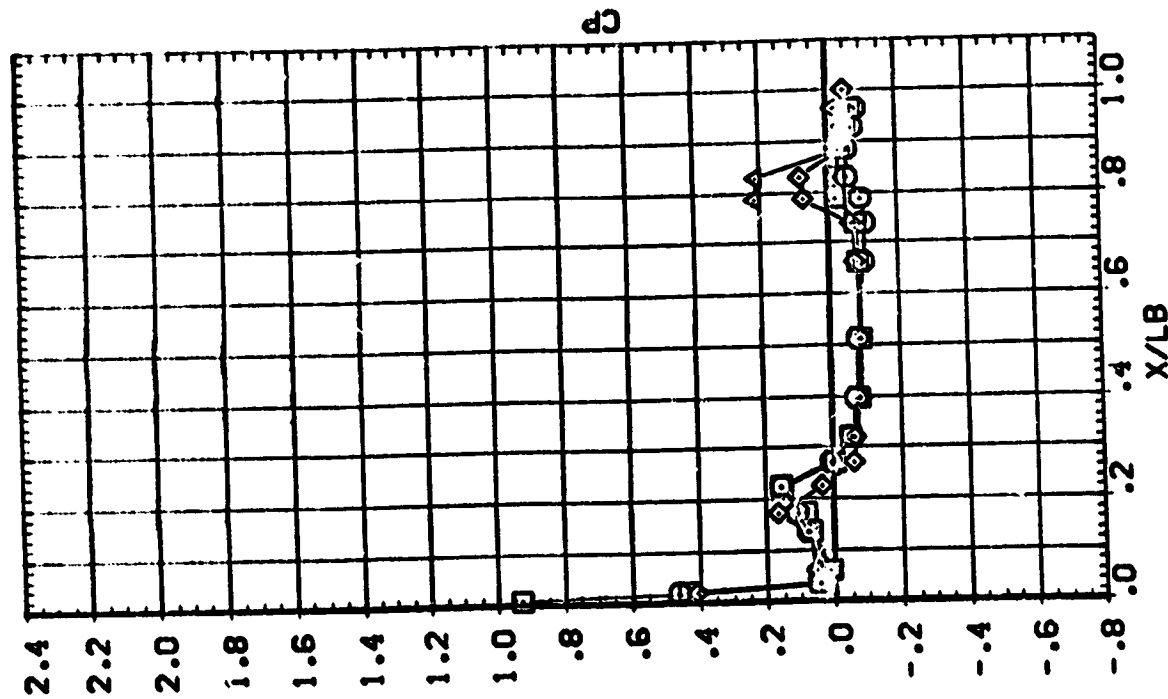
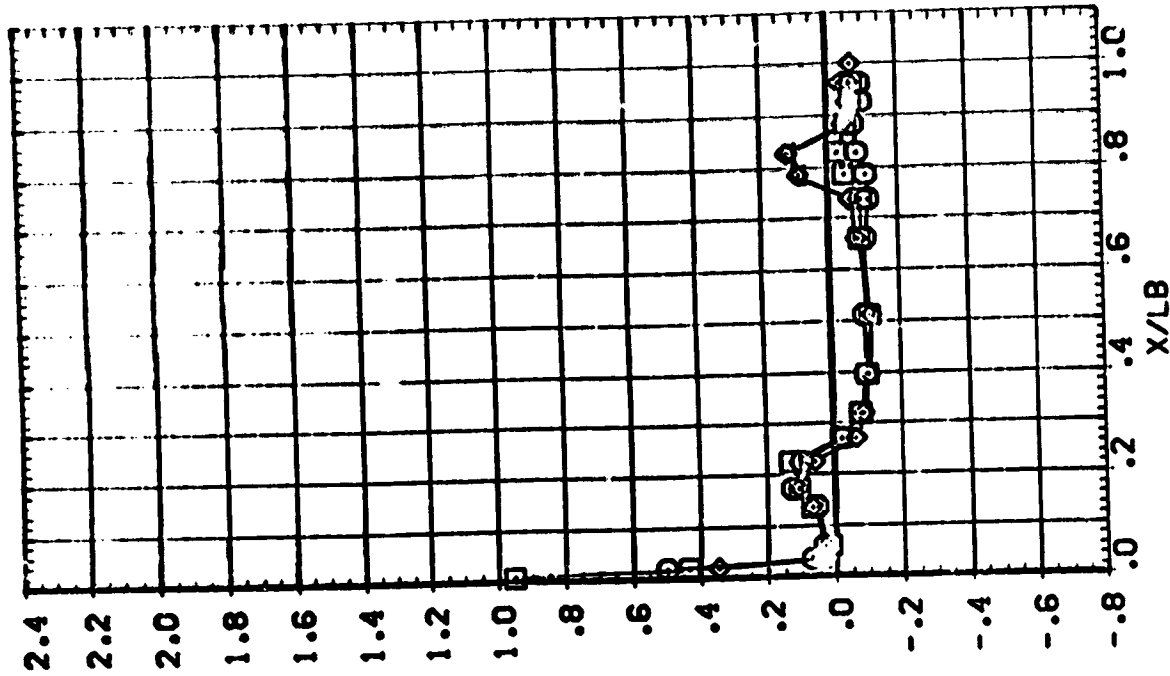
PHI
 70.000
 90.000
 120.000
 135.000

ALPHA
 3.900
 8.000

MACH
 2.498

BETA
 RDOER
 RZFLR

PARAMETRIC VALUES
 .000
 .000
 .000
 .000
 .000
 .000



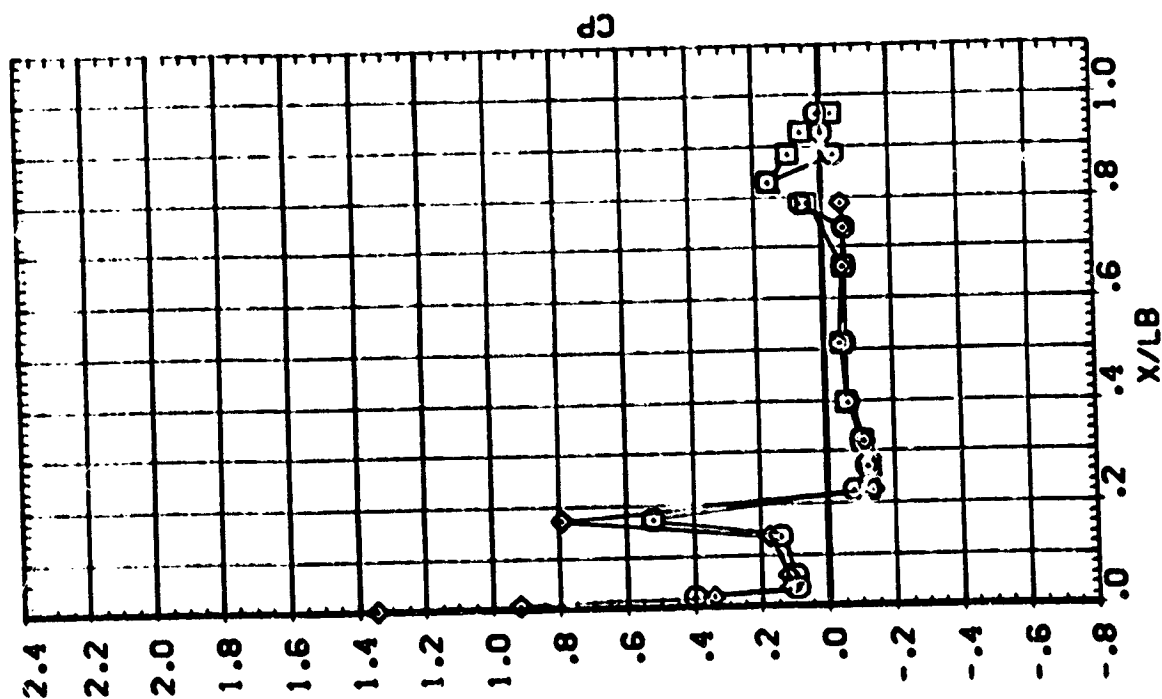
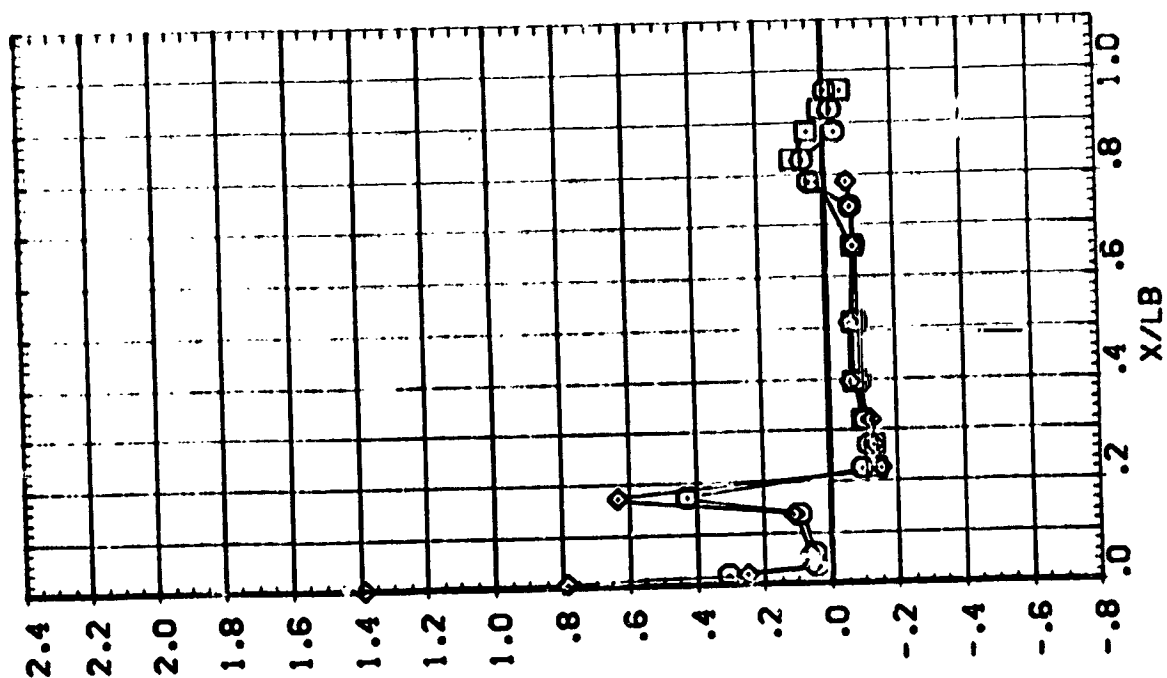
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 :A9 C2A - S3 - '9 CRBITER FUSELAGE (RBNBC:)

SYMBOL
:SC:000
:65:000
:60:000

ALPHAT MACH
3.900 2.450
0.010

PARAMETRIC VALUES
BETAT .000 .9991C
RUDDER .000 ELEVON
RUFLR .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

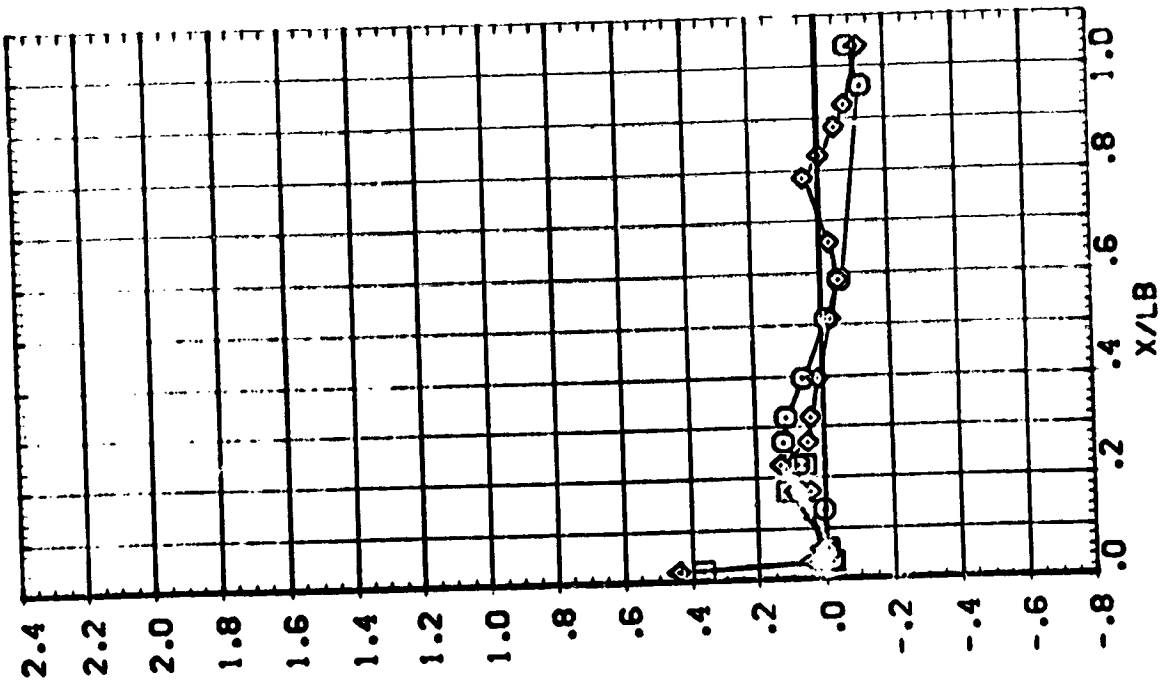
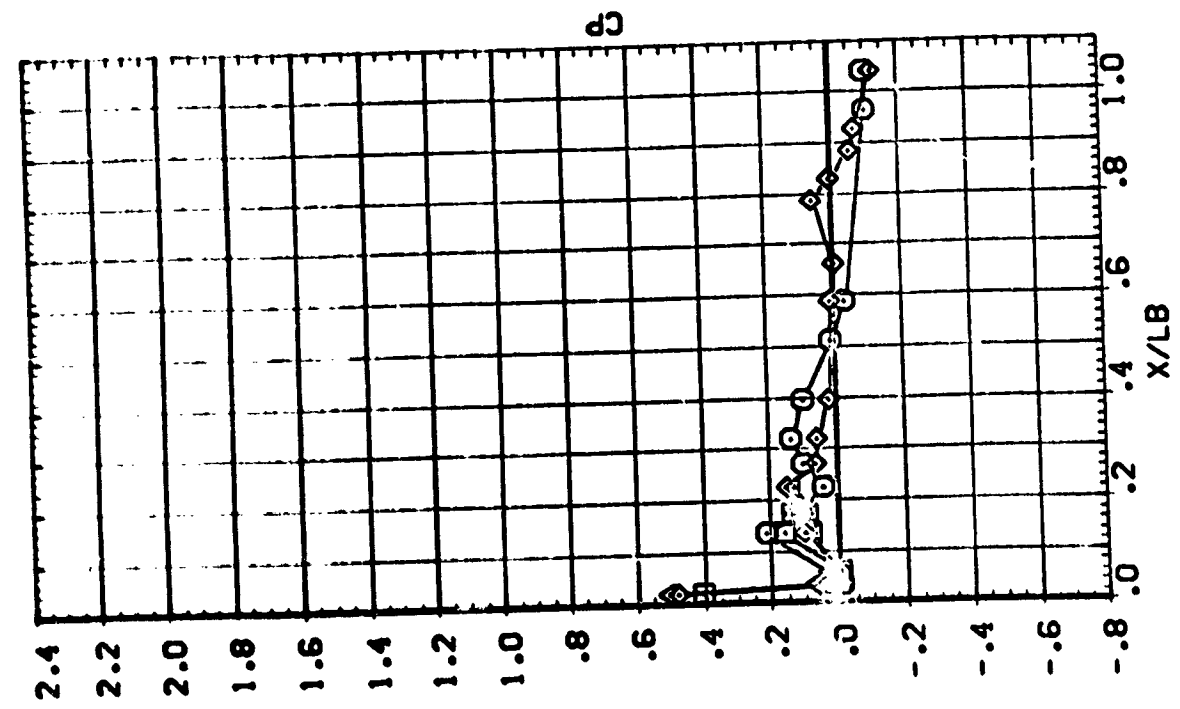
AVES 87-707 :A9 C2A - S3 - '9 CRB:TER FUSELAGE (RB\BC:)

SYNCH
0
0
0

ALPHA
-4.070
-0.010

BEA
RIDER
R2F.2

PARAMETRIC VALUES
0.000 DB/INC
0.000 ELEVON
0.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

PAGE 428

AVES 87-707 1A9 C2A + S3 + 19 ORBITER FUSELAGE (RBN3C:)

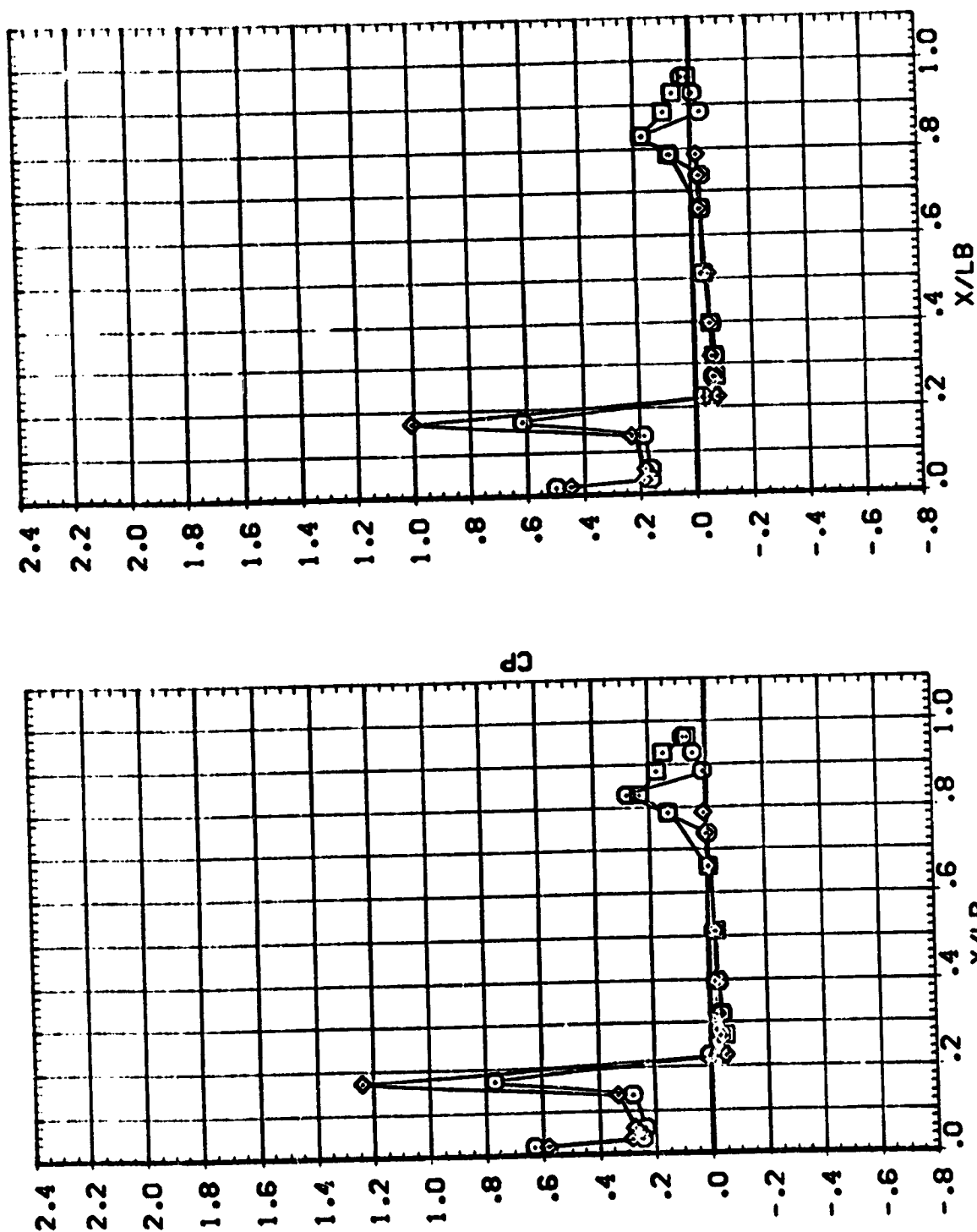
SYMBOL
 O
 O
 O

PH: 150.000
 165.000
 180.000

ALPHA: -4.070
 -1.010

MACH 2.999

PARAMETRIC VALUES
 BEAT .000 DRBING .500
 RUDDER .000 ELEVON .000
 RUDDER .000



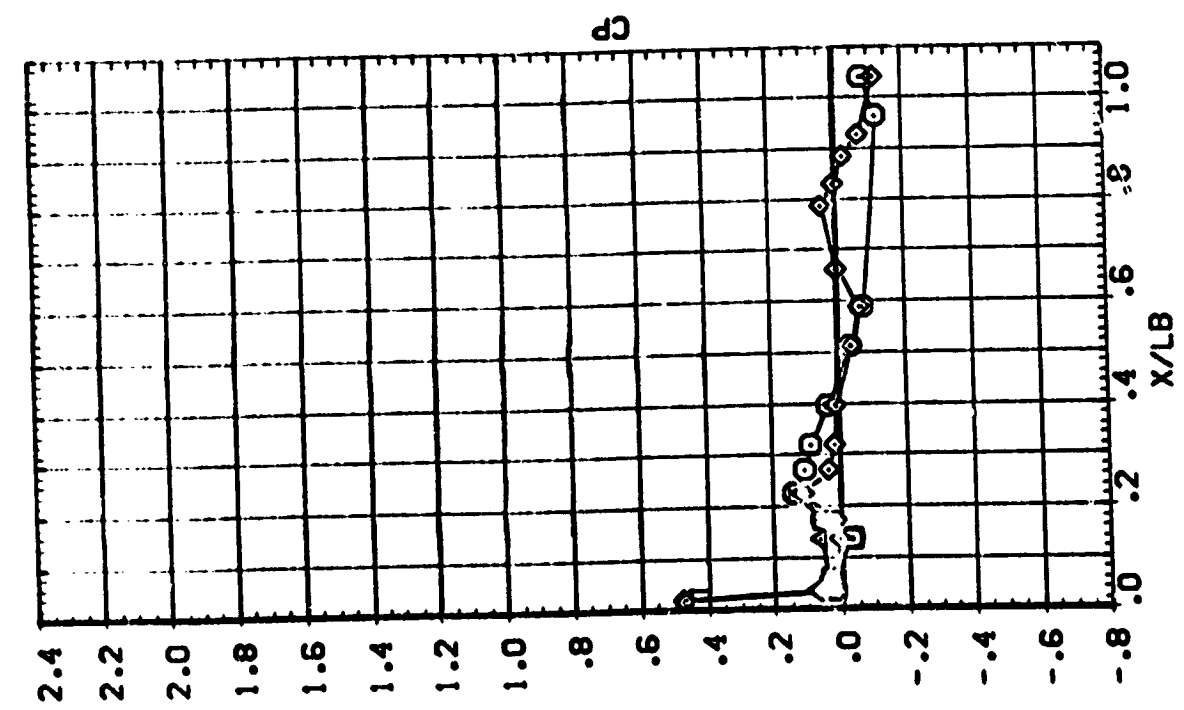
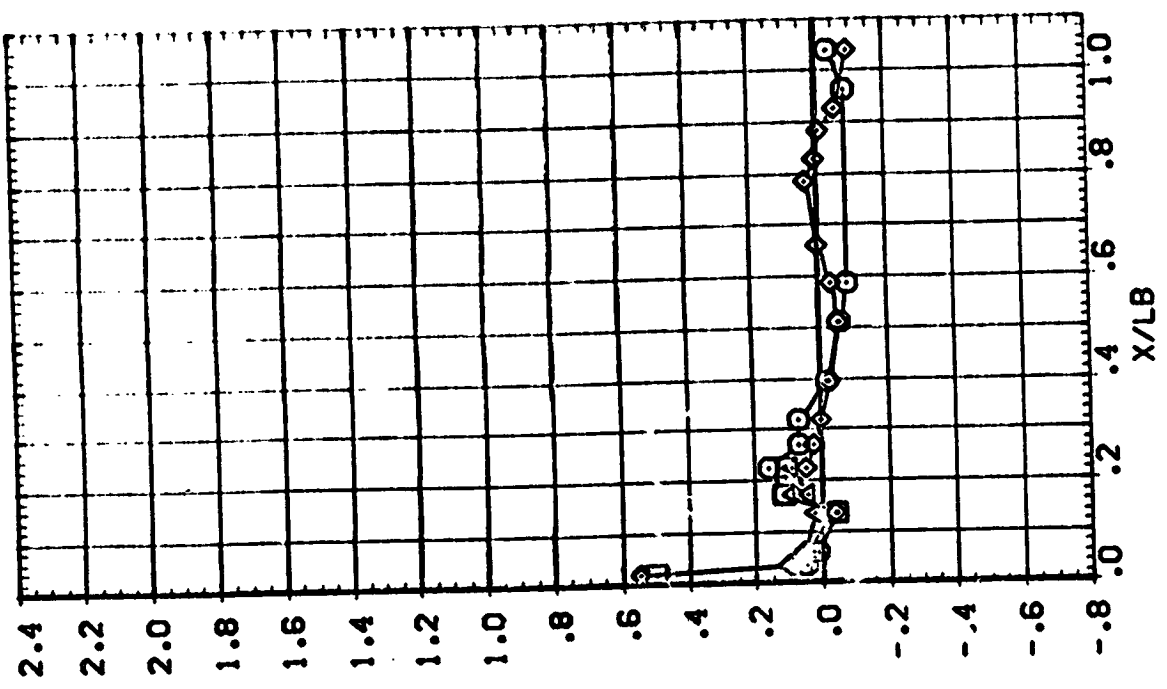
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

SYSC
O
O
O
O
O

ALPHAT MACH
3.960 7.999
8.000

BETA*
R0DER
R0FLR

PARAMETRIC VALUES
.000 .000 .000 .000
.000 .000 .000 .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

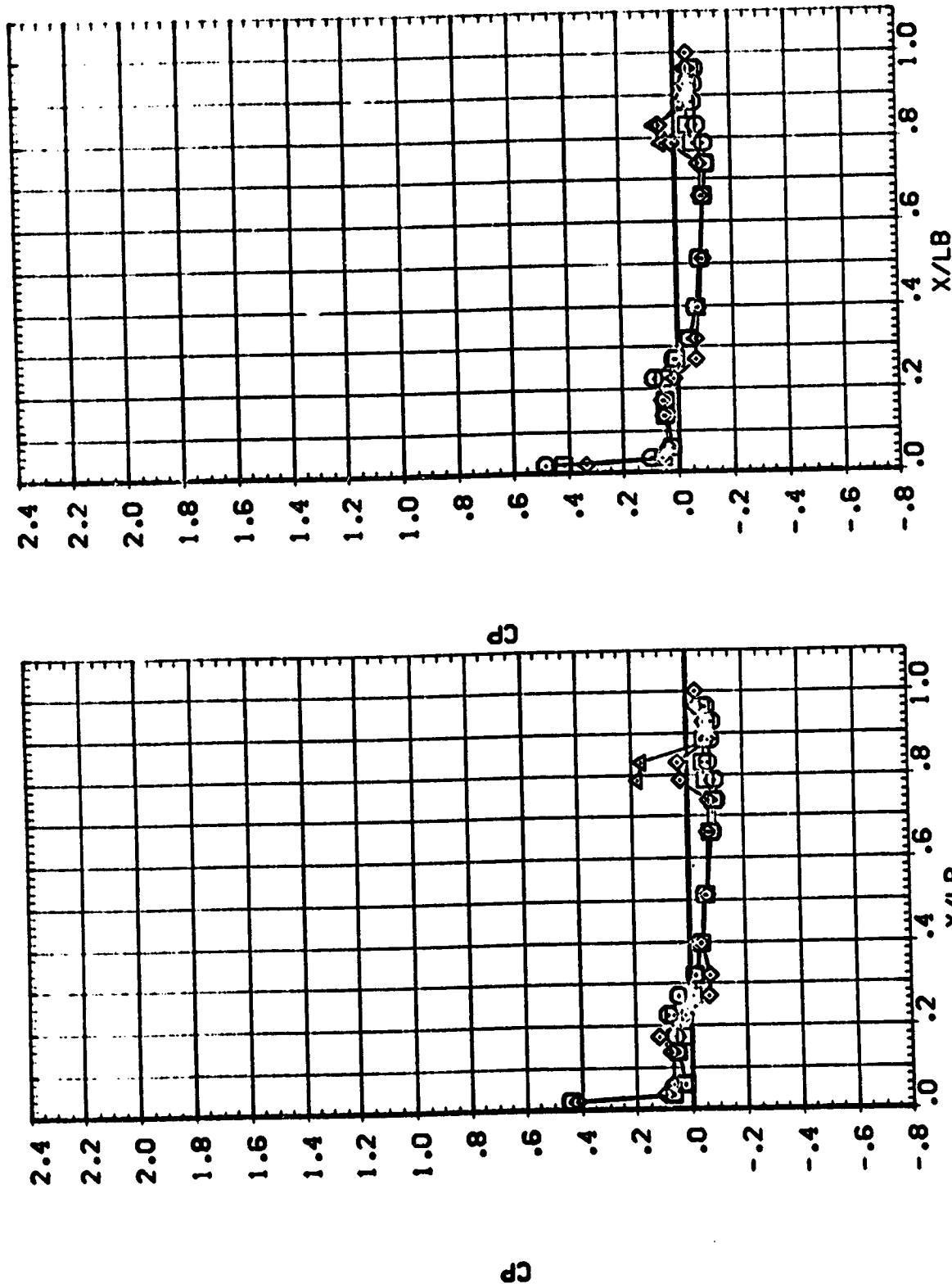
AVES 87-7C7 1A9 C2A + S3 + T9 ORBITER FUSELAGE (RBNG01)

SYSC
 PH: 75.000
 90.000
 170.000
 135.000

ALPHAT 3.960
 8.000

PACH 2.999

PARAMETRIC VALUES
 BETAT .000 ORBINC .500
 RUDDER .000 ELEVON .000
 RUFLR .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-7C7 :A9 C2A + S3 + T9 ORBITER FUSELAGE (R3N30):

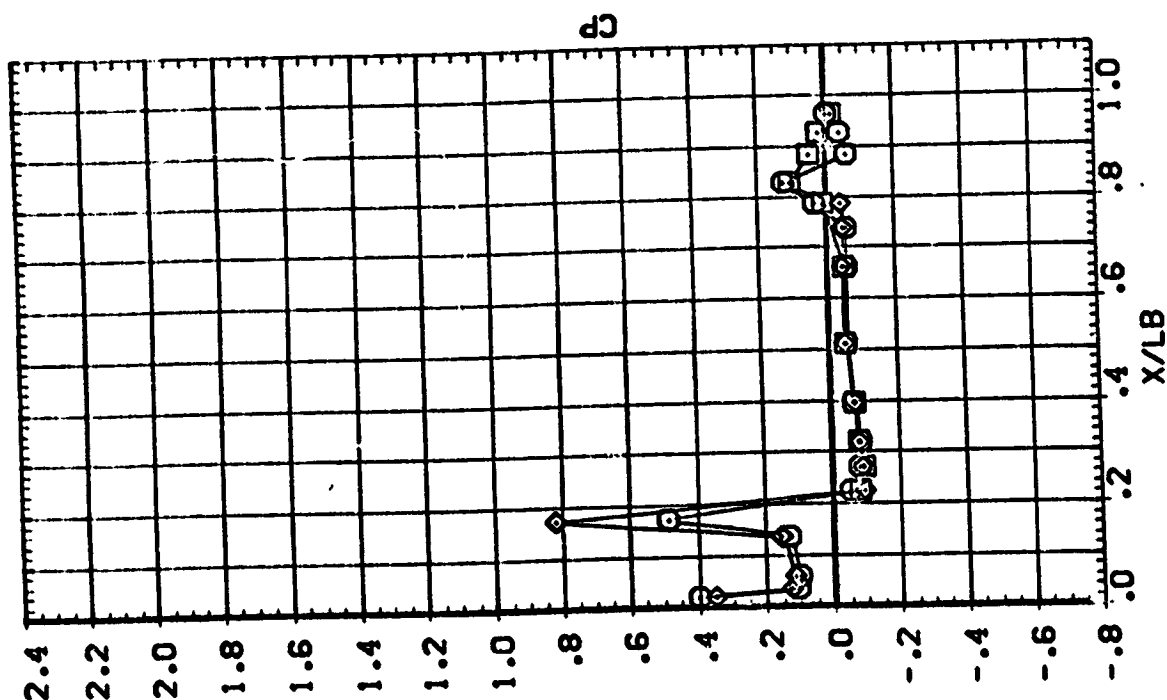
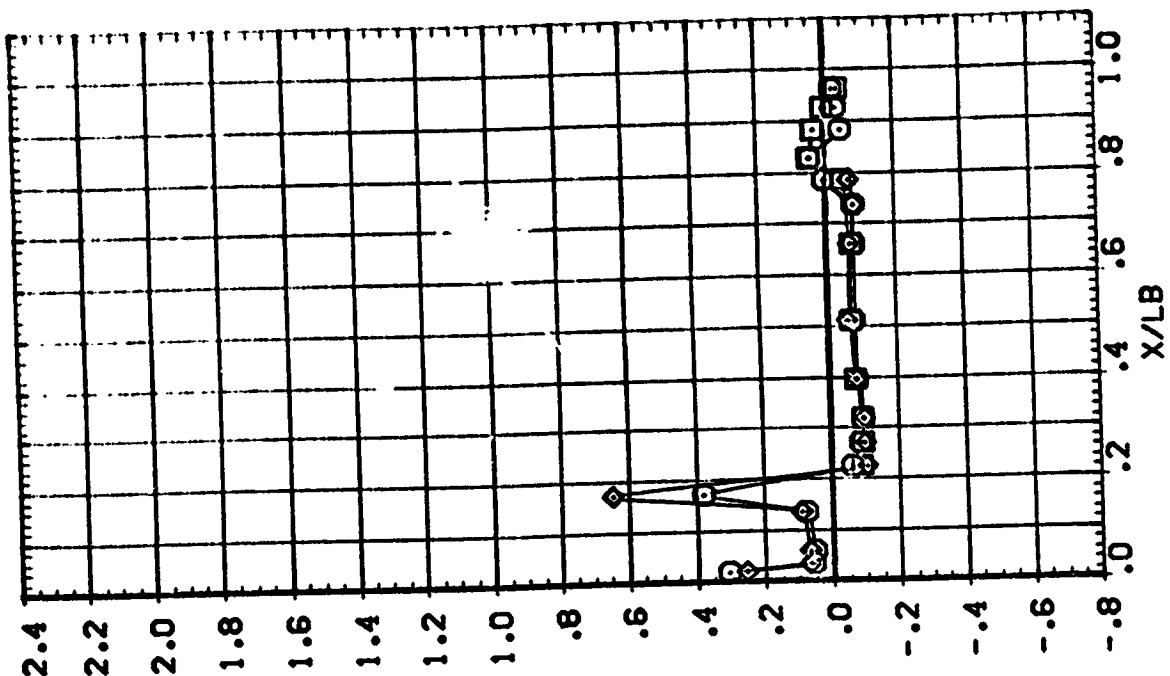
SYMBOL
 O
 O
 O

241
 150.000
 165.000
 180.000

ALPHAT
 3.960
 8.000

WACH
 2.999

PARAMETRIC VALUES
 BETAT .000
 RLODR .000
 RLOFLR .000
 ORGINC .500
 ELEVEN .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 :A9 C2A + S3 + 19 ORBITER FUSELAGE (RB801)

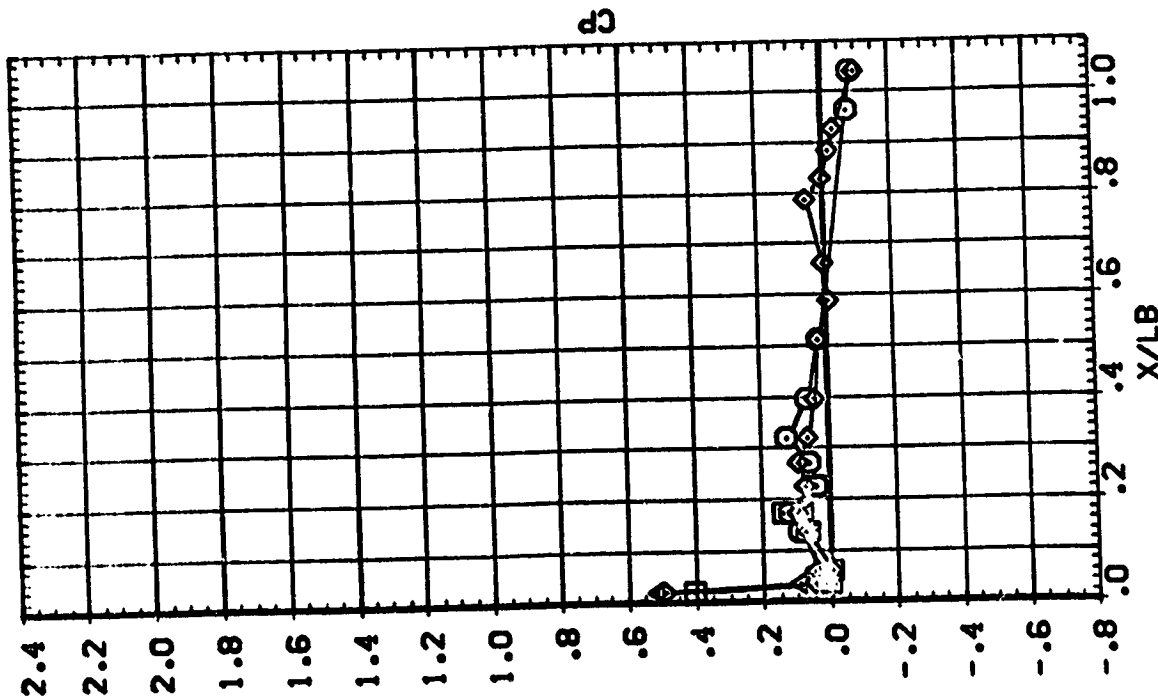
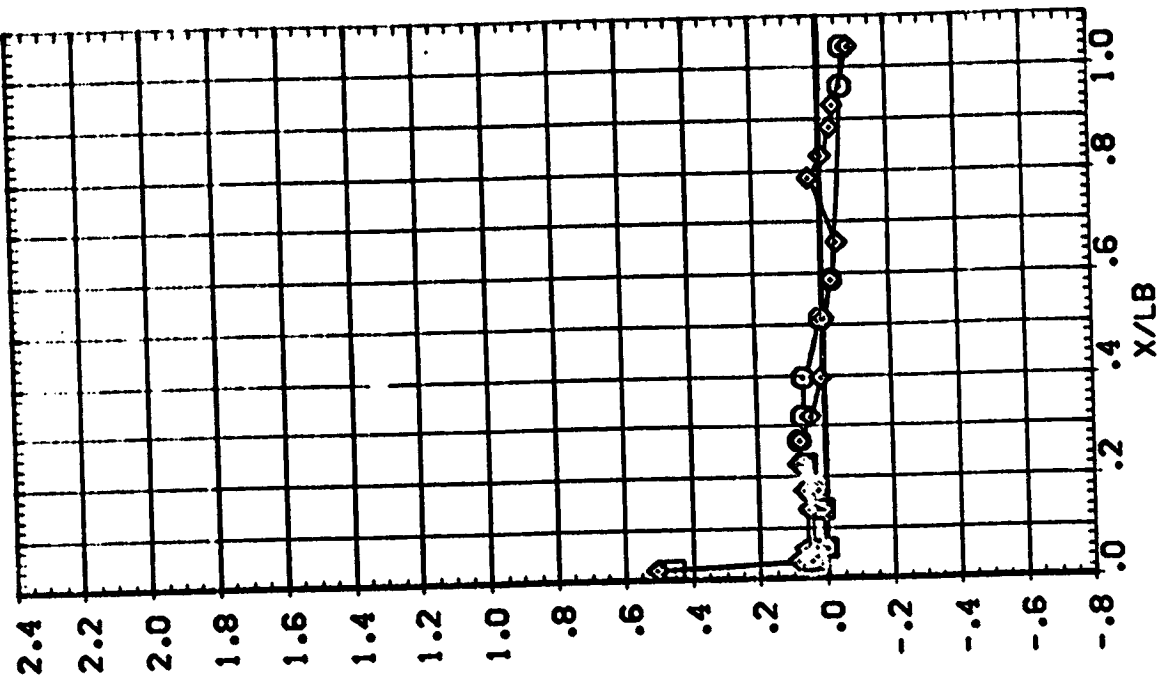
SYMBOL
 ○ 10.000
 □ 20.000
 △ 55.000

ALPHA
 -4.070
 -0.330

MACH
 3.502

BETAT
 RUDER
 RUDFLR

PARAMETRIC VALUES
 .000 ORBINC
 .000 ELEVON
 .000

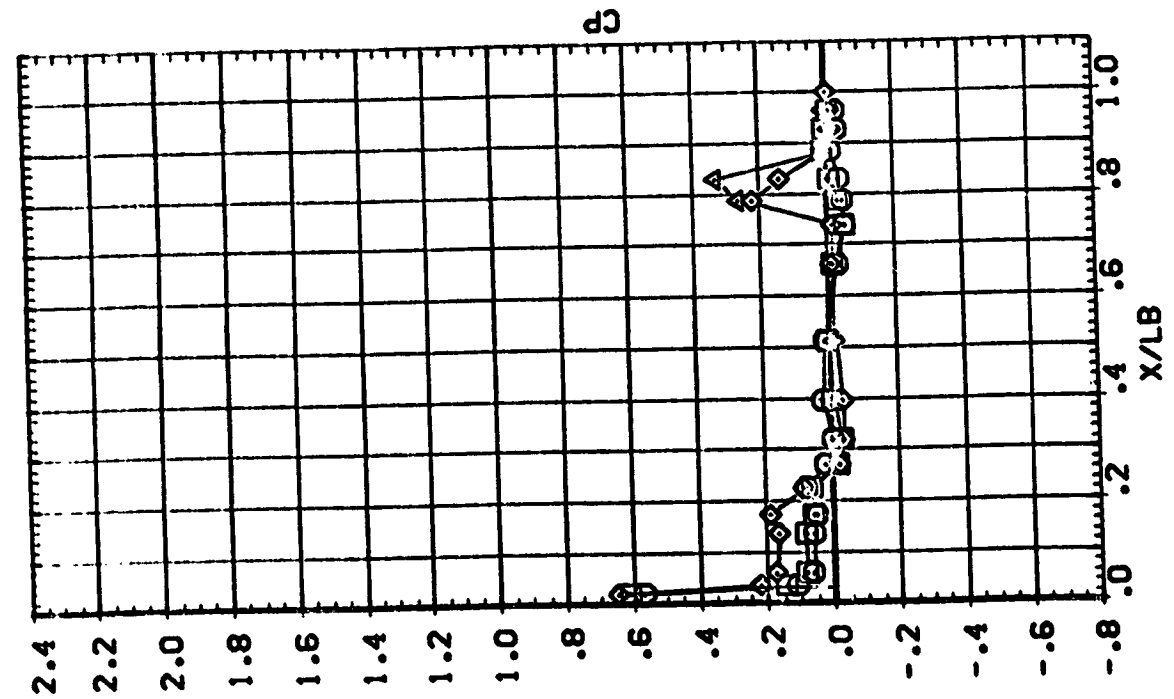
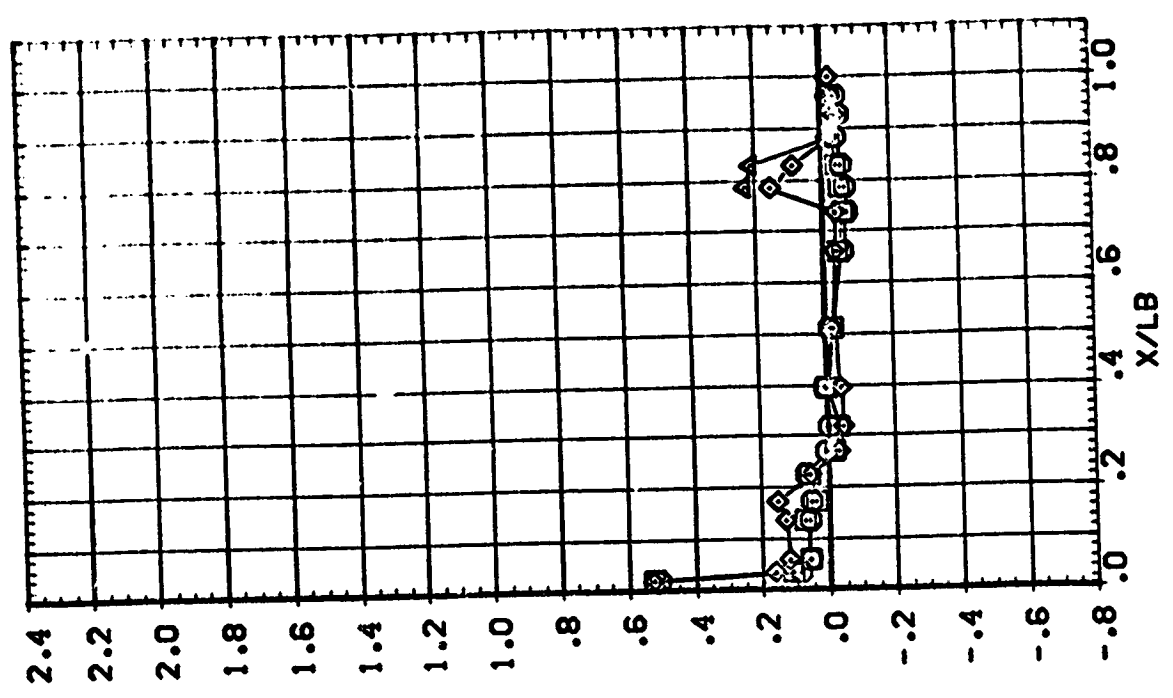


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

ALPHAT 3.502
-4.070
-0.030

SYSC-
75.000
90.000
120.000
135.000

PARAMETRIC VALUES
BETAT .000
RUDER .000
RJOFLR .000
ELEVN .000
S981N .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 :A9 02A - S3 + T9 ORBITER FUSELAGE (R8N801)

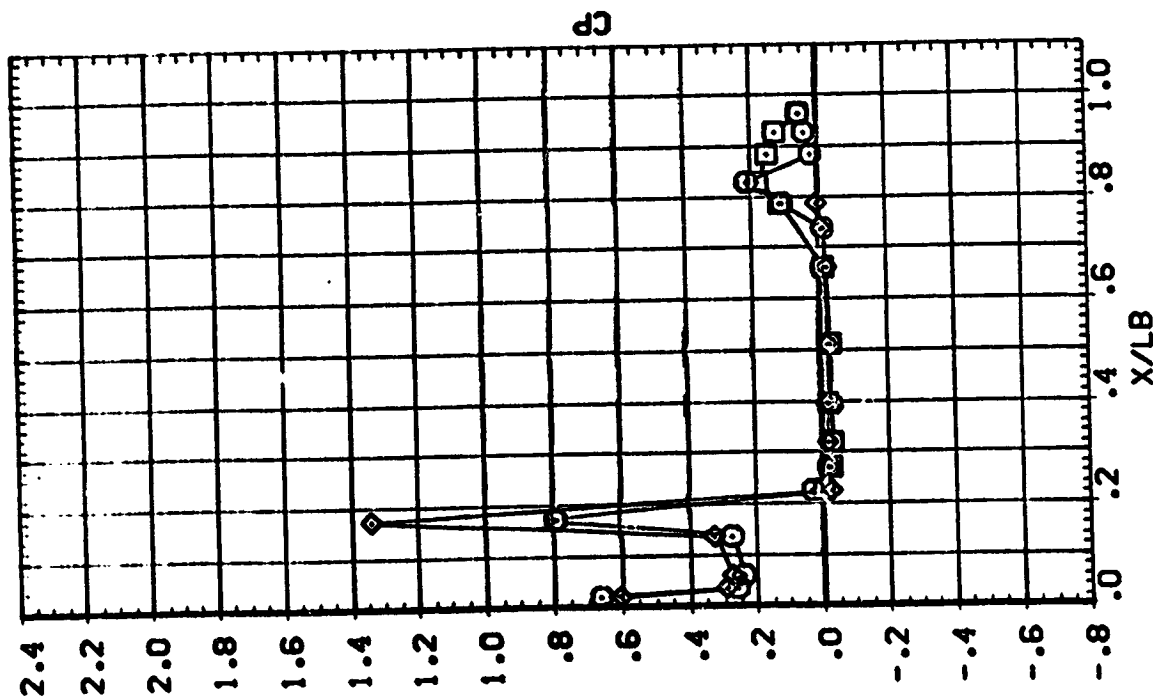
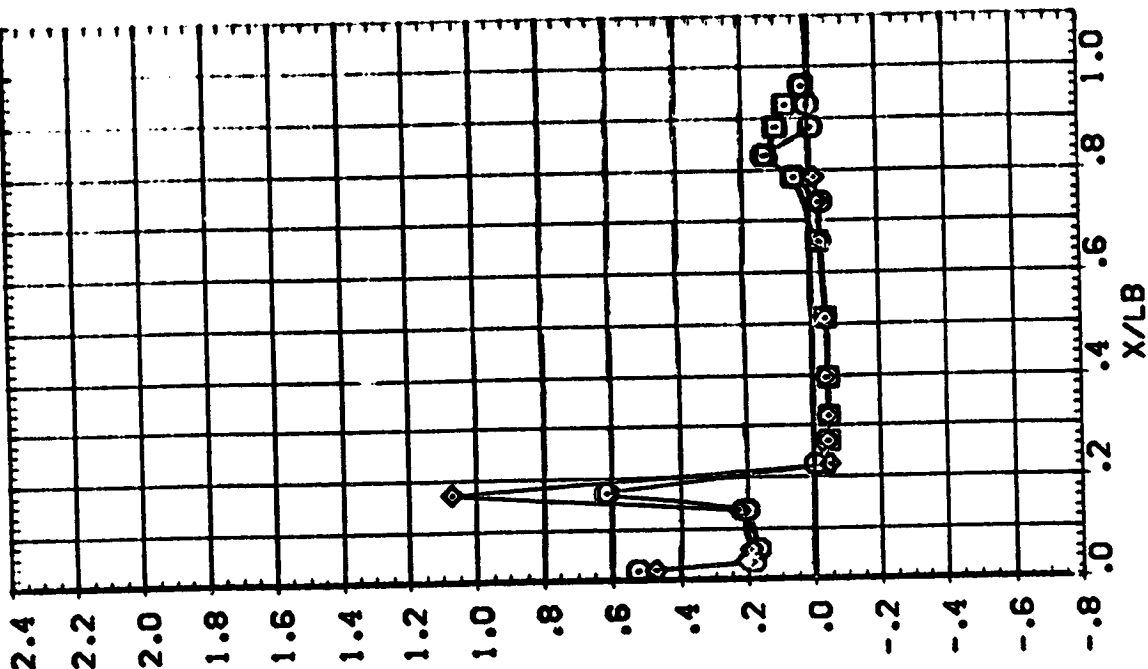
SYNCH
010
0

PHI
:50.000
:65.000
:80.000

ALPHA
-4.070
-.030

MACH
3.502

PARAMETRIC VALUES
BETAT .000
RUDER .000
RUDFLR .000
DRG:NC .500
ELEVON .000

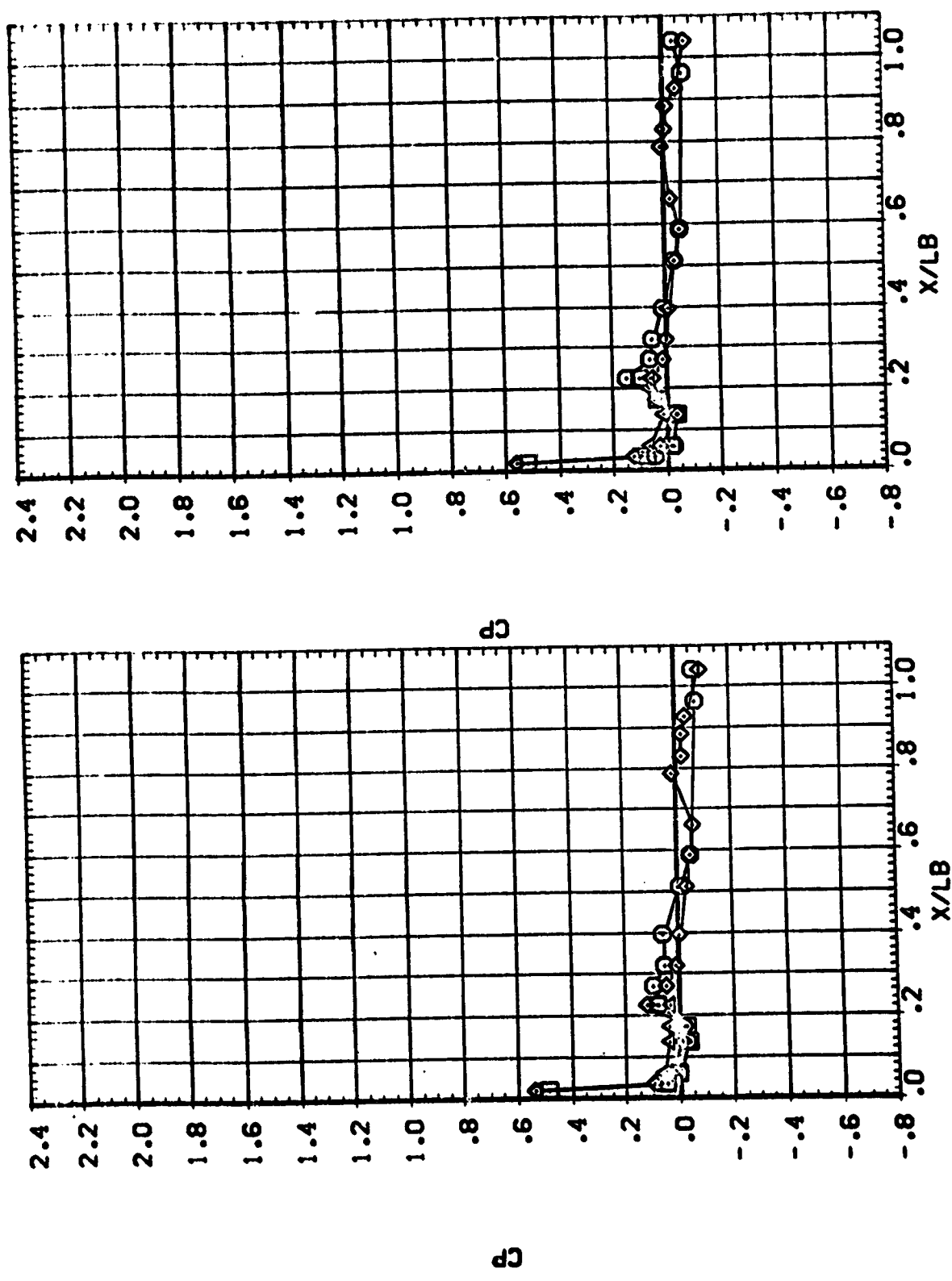


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES -

SYMBOL
 ○ 20.000
 □ 40.000
 ◇ 55.000

ALPHAT MACH
 3.960 3.502
 8.010

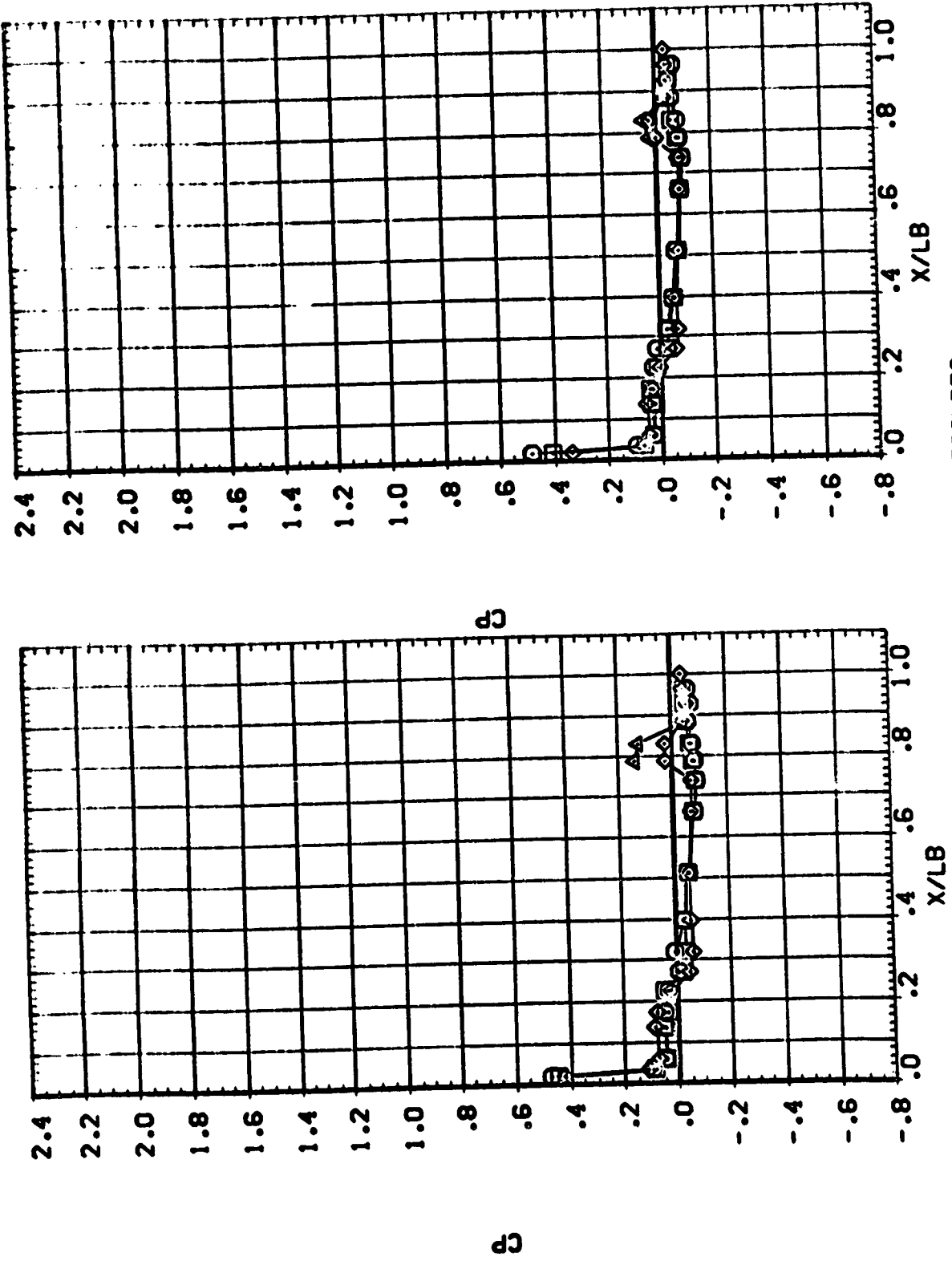
PARAMETRIC VALUES
 BETAT .000 ORBINC .500
 RUDDER .000 ELEVON .000
 RUJTER .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-7C7 1A9 02A - S3 - 19 ORBITER FUSELAGE (R3N3C3)

SYEC	70.000	ALPHAT	WACH	BETAT	PARAMETRIC VALUES
000	90.000	3.960	3.502	.000	098.10
000	170.000	8.010		.000	ELEVON
000	35.000			.000	

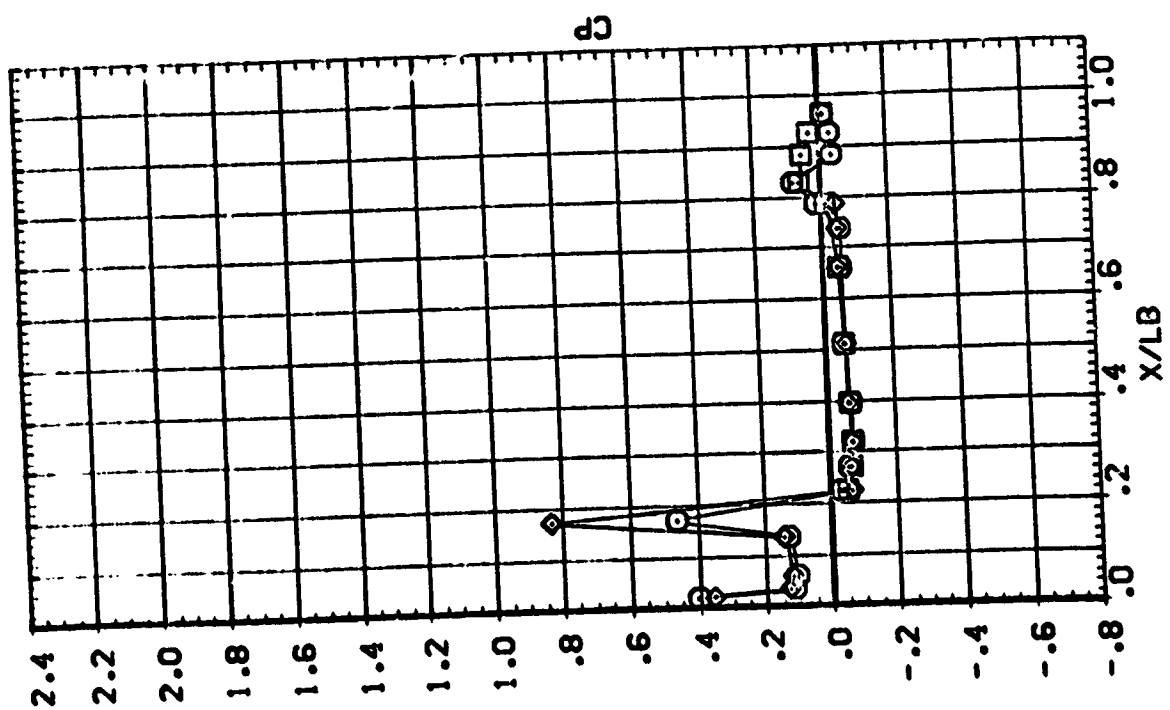
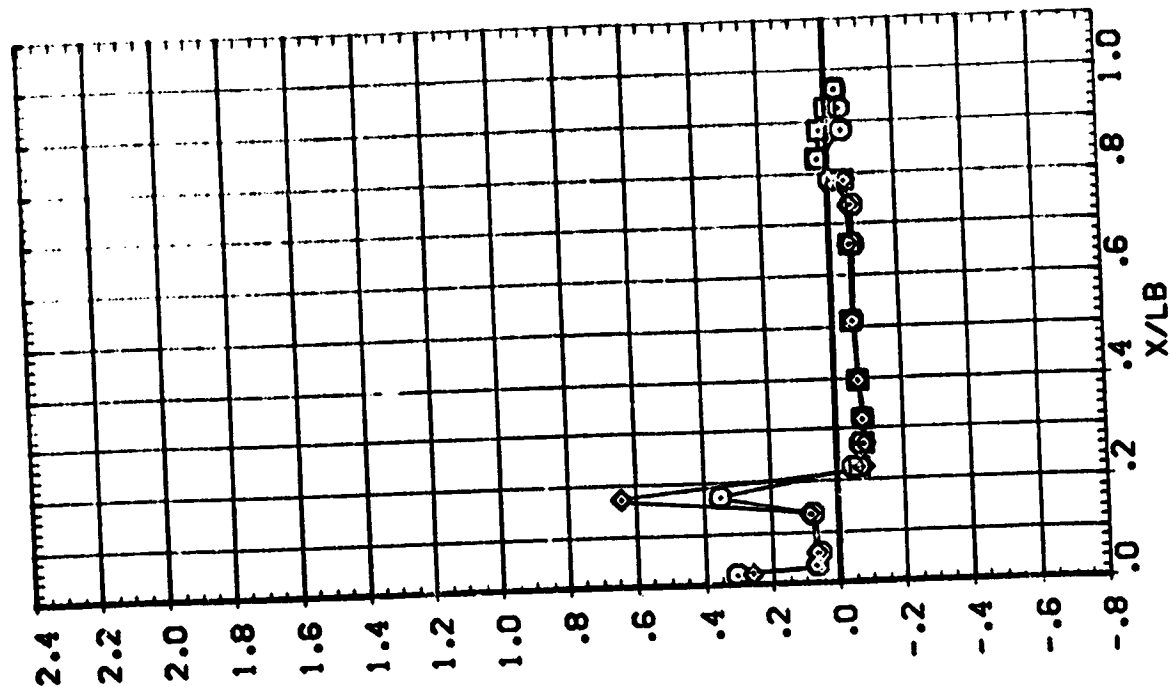


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 :A9 C2A - S3 - 79 ORBITER FUSELAGE (RBNBC:)

PARAMETRIC VALUES
 BETAT .000 .000 .000
 RUDDER .000 .000 .000
 RUDDL .000 .000 .000

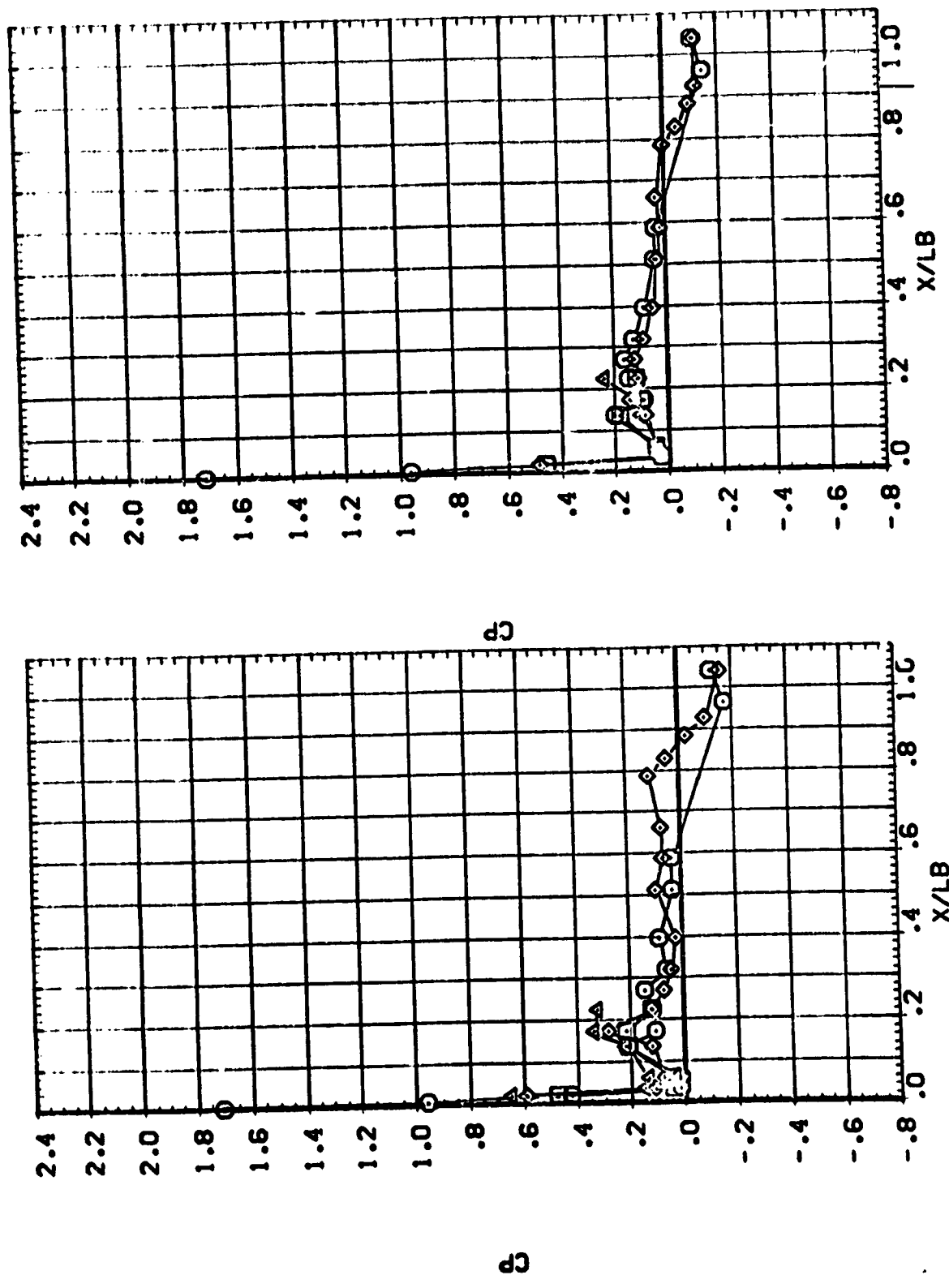
SYMBOL
 :50.000
 :60.000
 :80.000
 :100.000
 :120.000
 :140.000
 :160.000
 :180.000
 :200.000
 :220.000
 :240.000
 :260.000
 :280.000
 :300.000
 :320.000
 :340.000
 :360.000
 :380.000
 :400.000
 :420.000
 :440.000
 :460.000
 :480.000
 :500.000
 :520.000
 :540.000
 :560.000
 :580.000
 :600.000
 :620.000
 :640.000
 :660.000
 :680.000
 :700.000
 :720.000
 :740.000
 :760.000
 :780.000
 :800.000
 :820.000
 :840.000
 :860.000
 :880.000
 :900.000
 :920.000
 :940.000
 :960.000
 :980.000
 :1000.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 1A9 C2A + S3 + T9 ORBITER FUSELAGE (RBN302)

SYMBOL	PARAMETER	VALUE
○	ALPHA	-8.000
◇	ROOFER	.000
△	ROOFER	.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 :A9 C2A - S3 - 19 ORBITER FUSELAGE (RBN3C2)

SYNCH

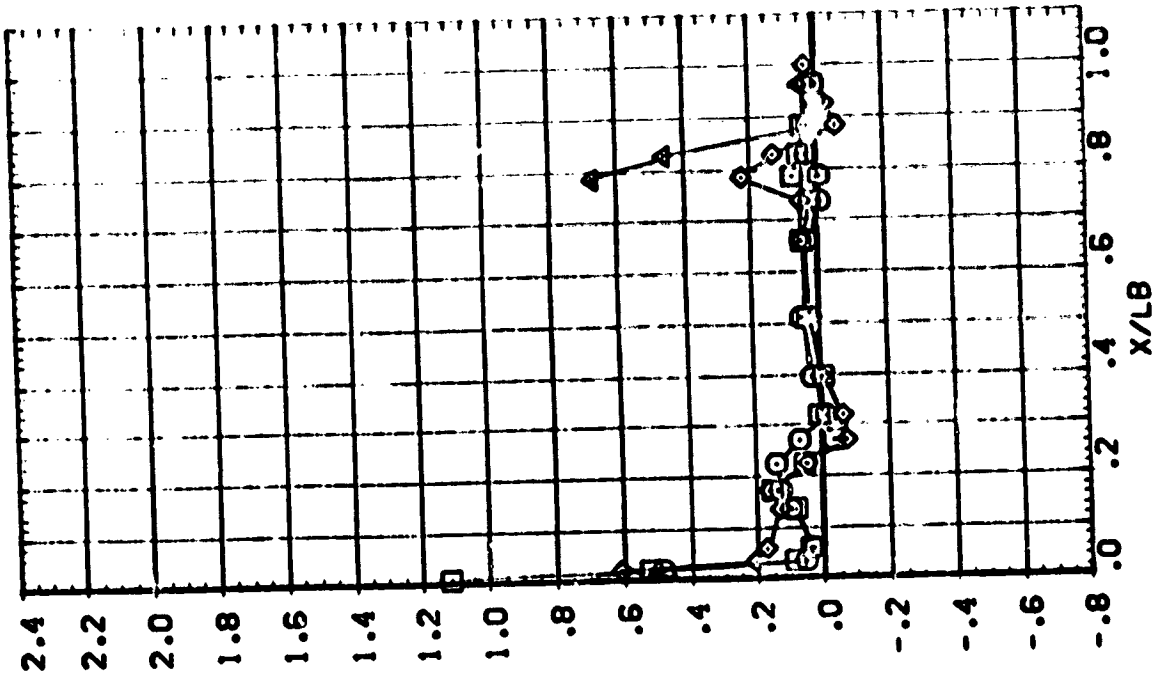
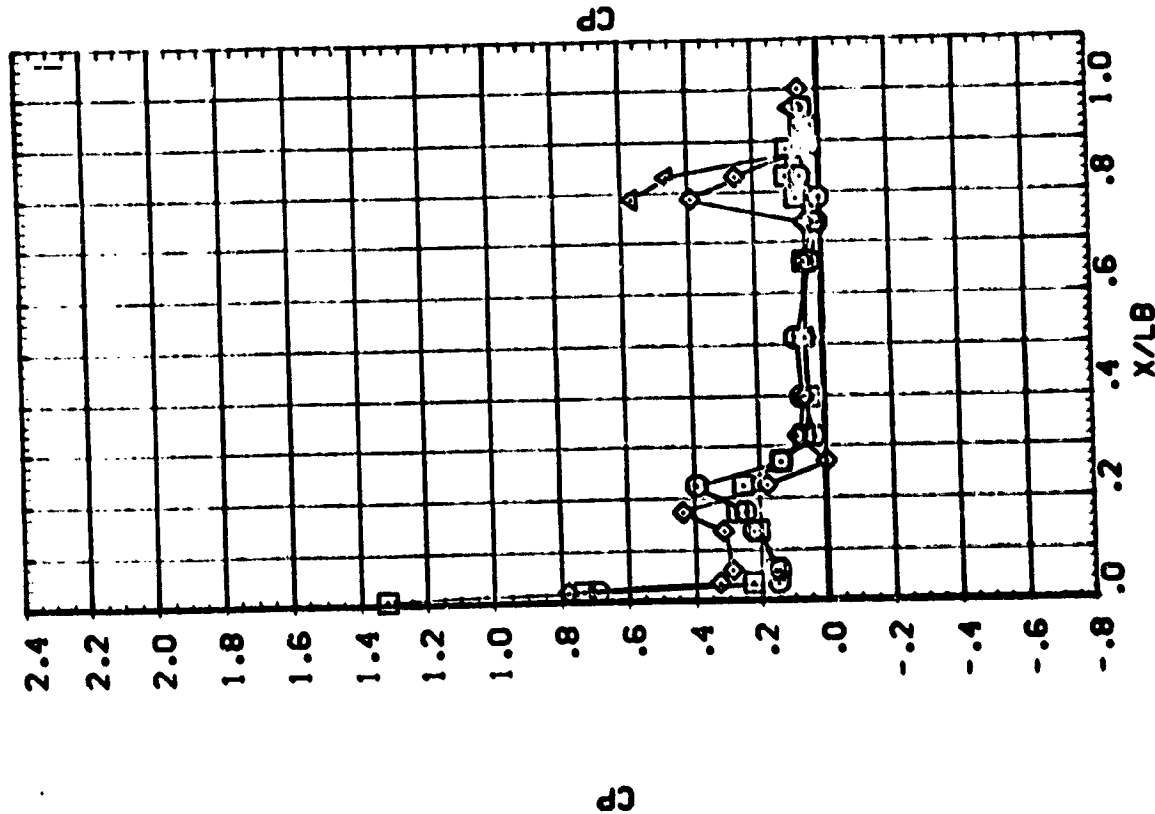
70.000
90.000
170.000
135.000

BETA
-4.170
2.180

MACH
2.498

PARAMETRIC VALUES
ALPHA: -8.000
RUFER .000
RUFER .000
ELEVON .000

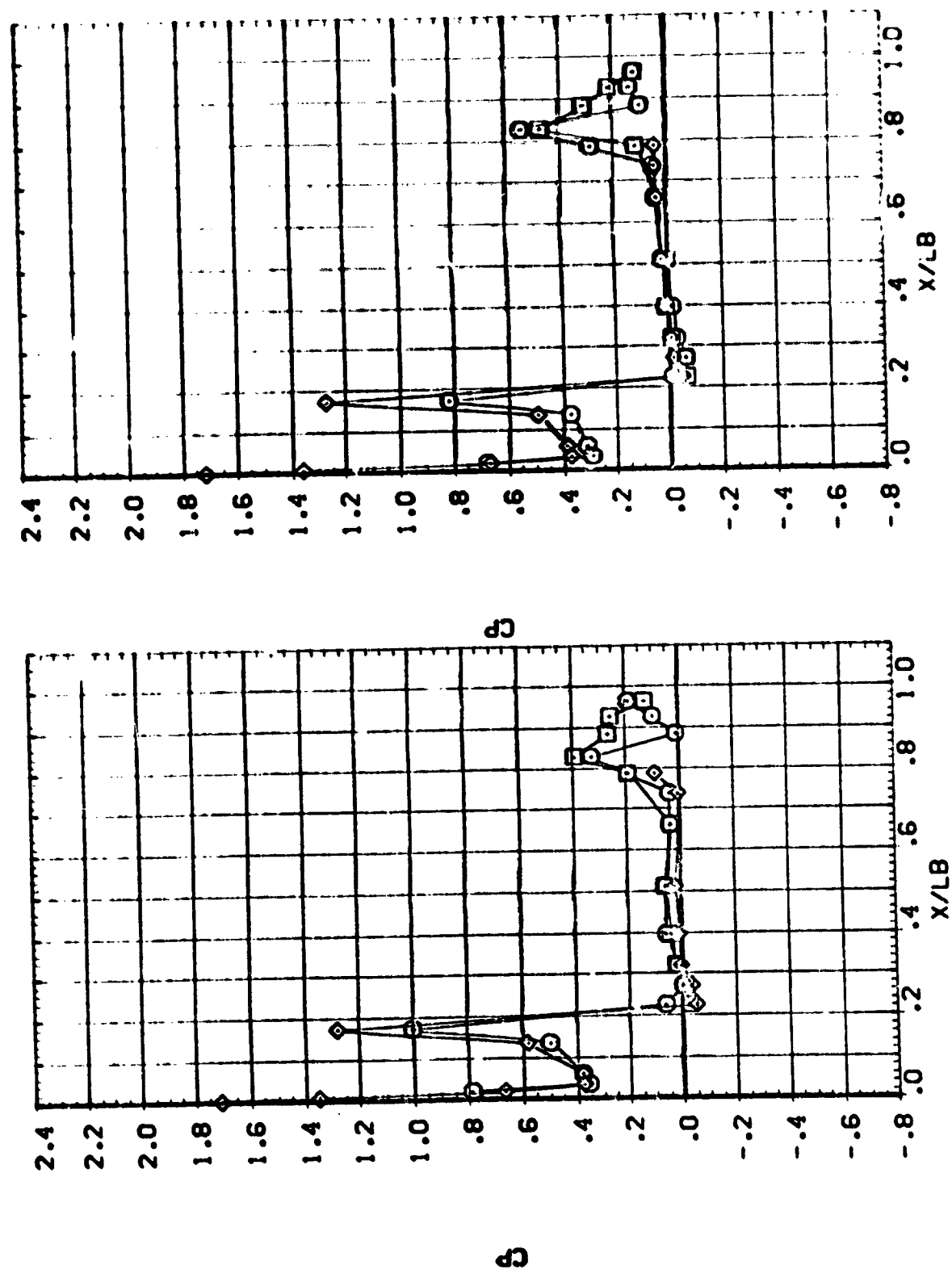
500
1000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 8: 1001 1A9 C2A - S3 - 19 CRBITER : USELAGE (R313C2)

SYNCH	BEAT	WAVE	AVES	VALS
150.000	4.175	2.498	0.000	0.000
165.000	2.180		0.000	0.000
180.000			0.000	0.000

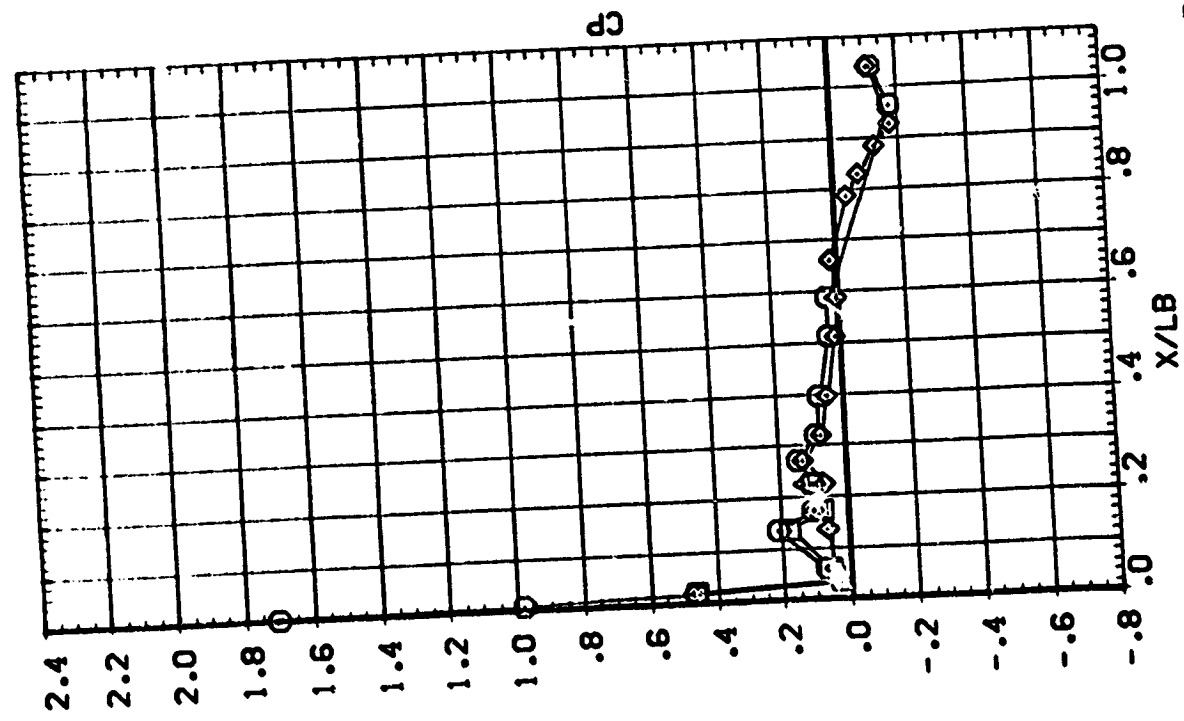


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

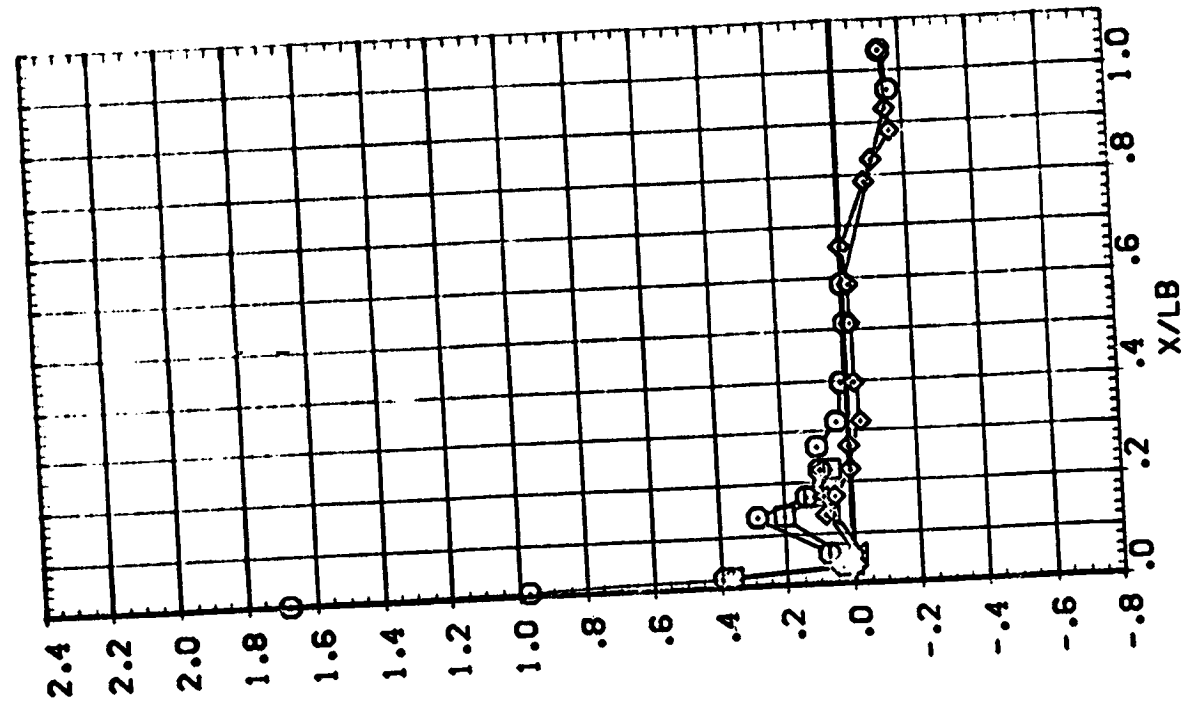
AVES 87-707, 10 JUL 77

SYNTH
 ()
 <
 >

BEAT MACH
 4.370 2.498
 8.590



ALPHA: -8.000
 RUDER .000
 ROLLR .000
 ORBITING .500
 ELEVON .000



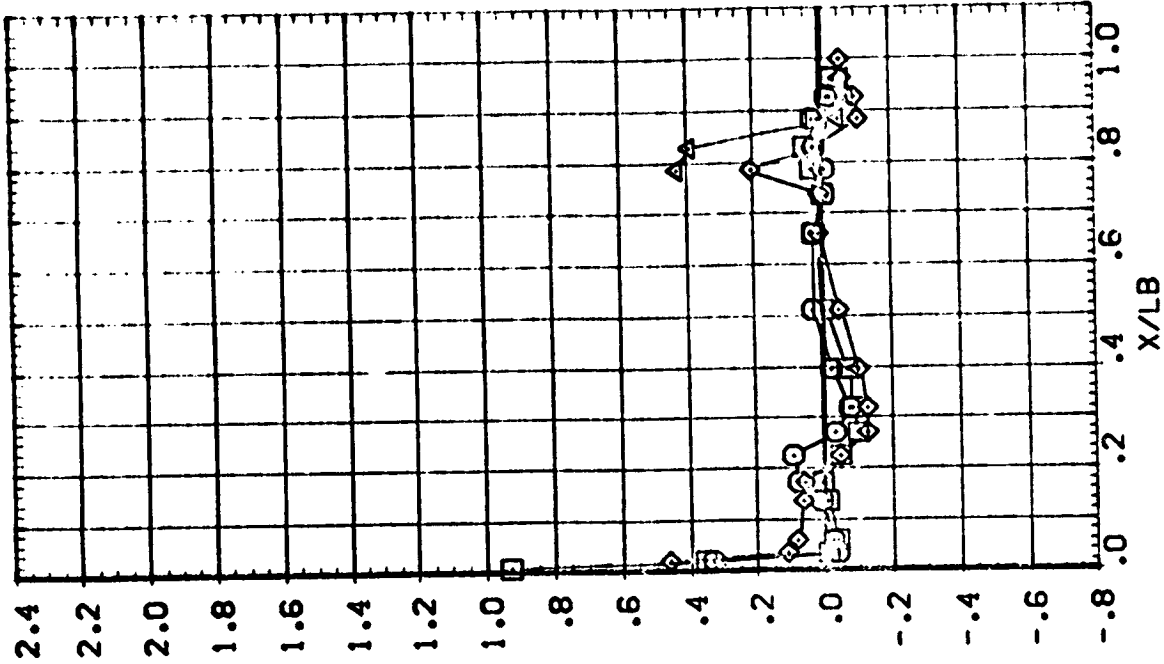
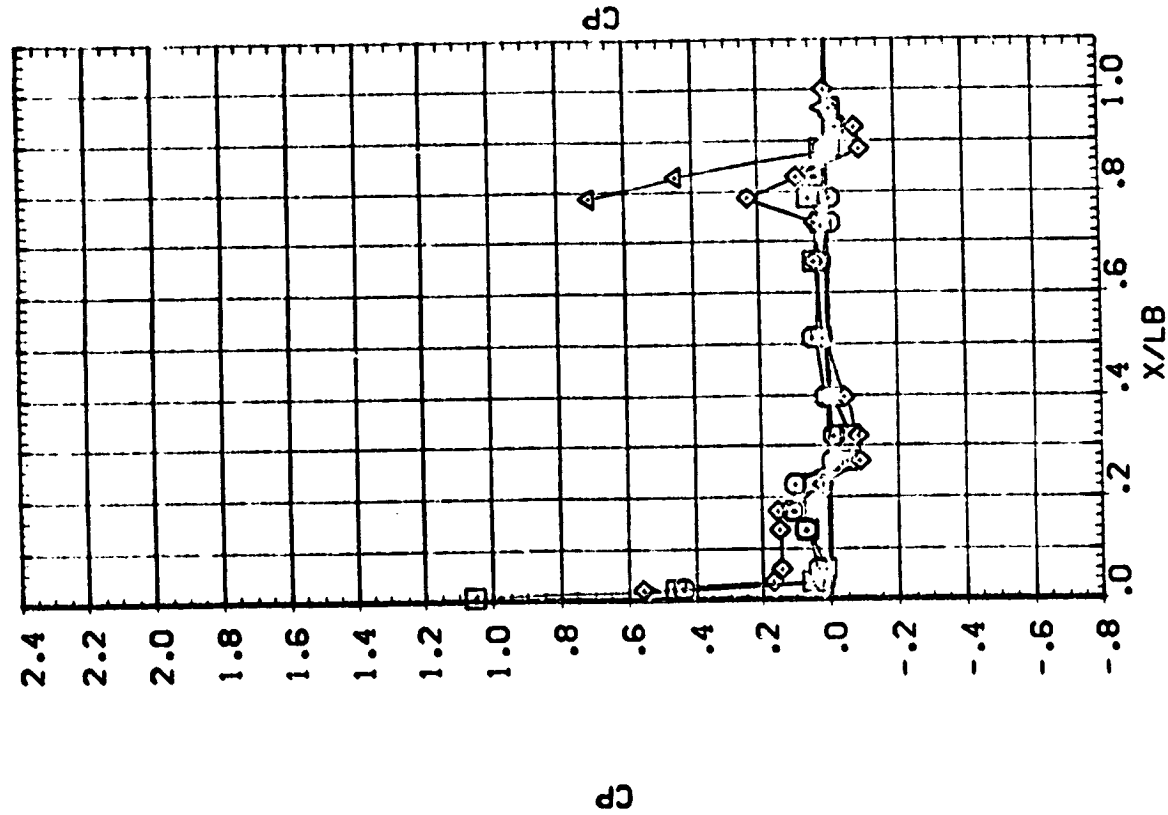
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 :A9 C2A + S3 + T9 ORBITER FUSELAGE (R8NBC2)

SVSEC
 70.000
 90.000
 120.000
 135.000

BETA WACH
 4.370 2.498
 8.590

PARAMETRIC VALUES
 ALPHAT -8.000 ORBINC .500
 RUDDER .000 ELEVEN .500
 RUDDLR .000



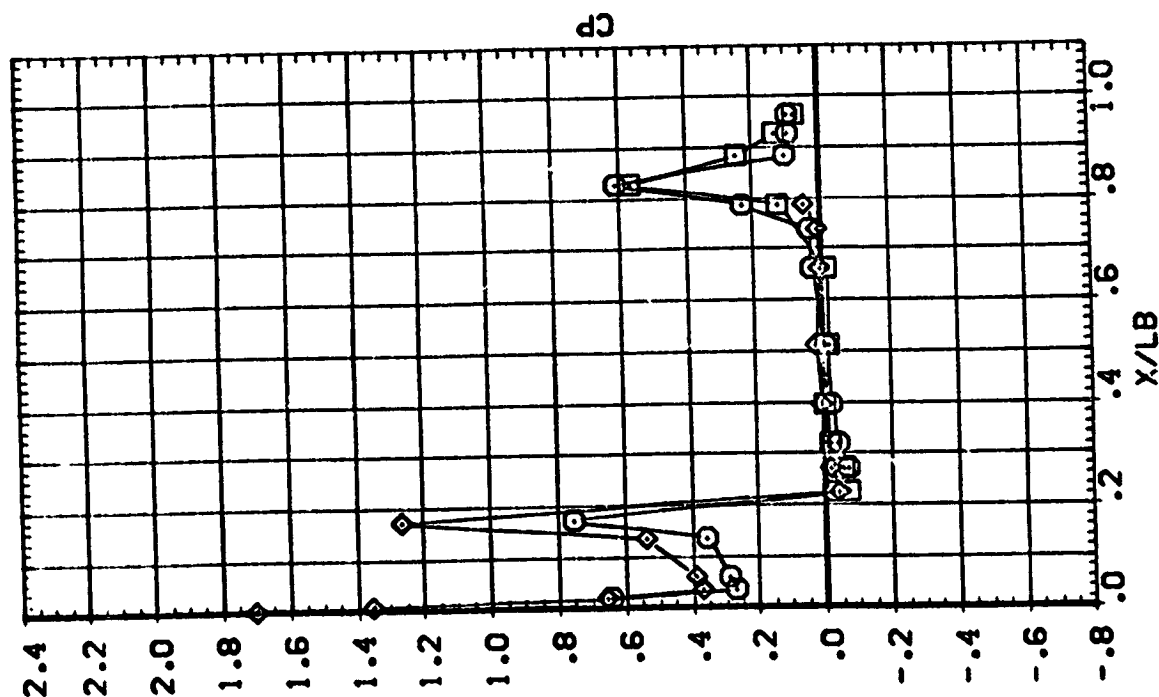
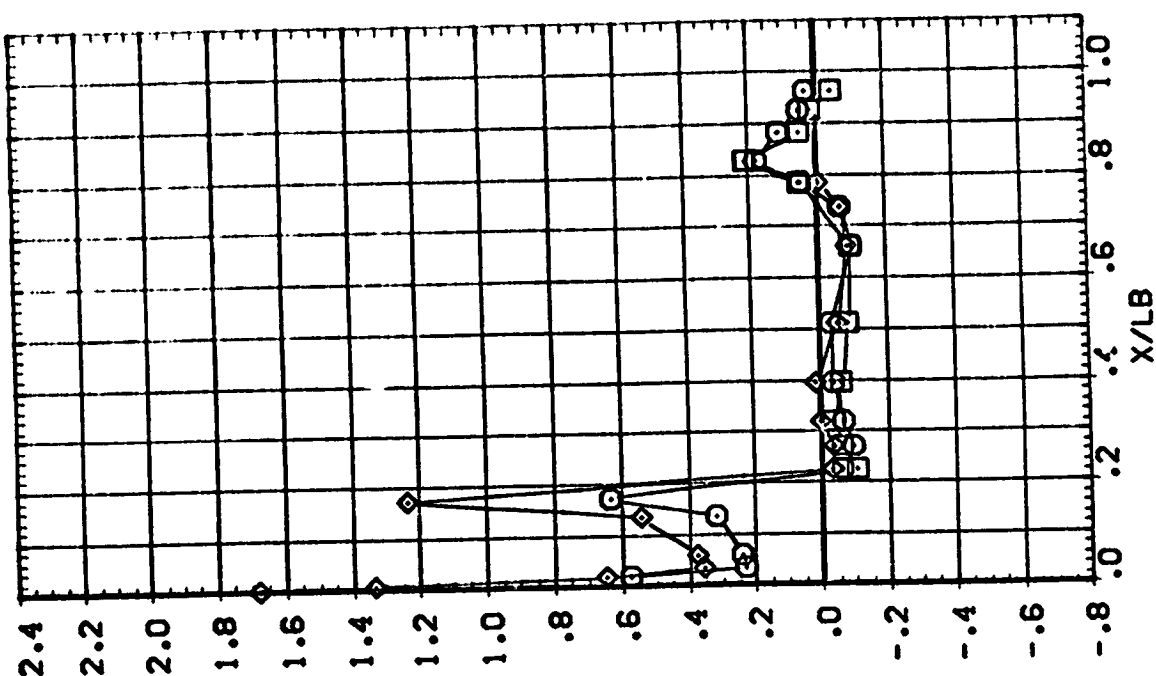
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 1A9 C2A + S3 + T9 ORBITER FUSELAGE (RBNB02)

SYMBOL
 ○
 ◇

PAI BETAT MACH
 :50.000 4.320 2.498
 :65.000 8.590
 :80.000

PARAMETRIC VALUES
 ALPHAT -8.000 ORG:NC .500
 RUDDER .000 ELEVON .000
 RUOFLR .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 1A9 02A - S3 + 19 ORBITER FUSELAGE (RBN902)

SYMBOL
 ○ □ ◇ △

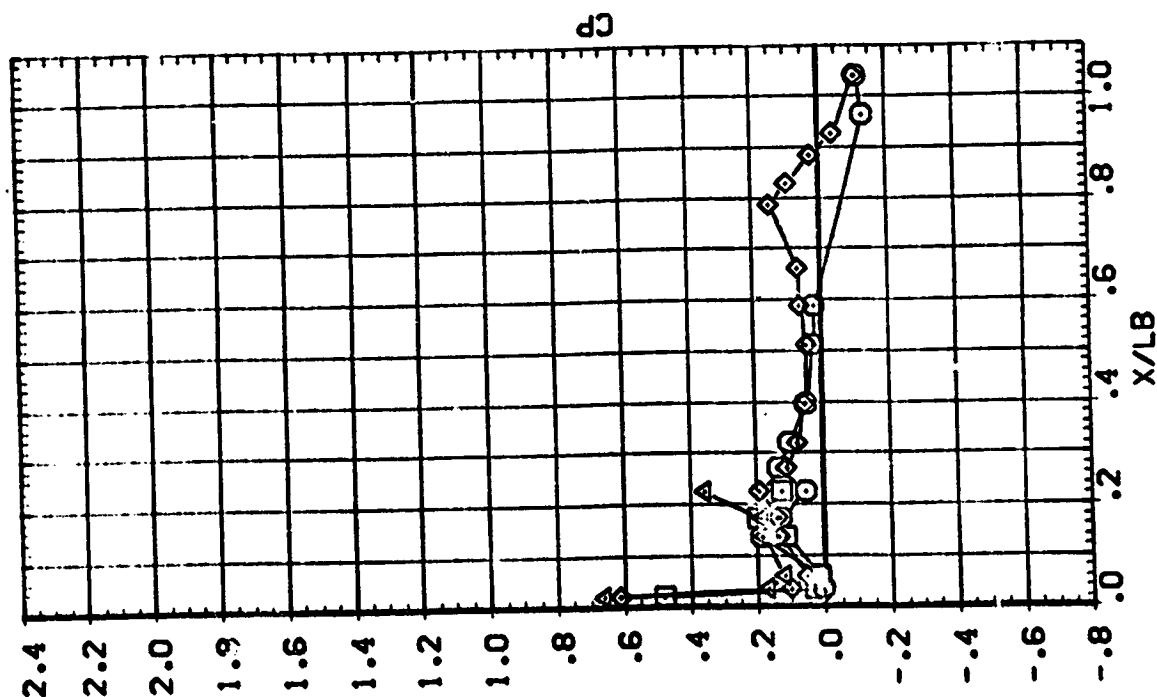
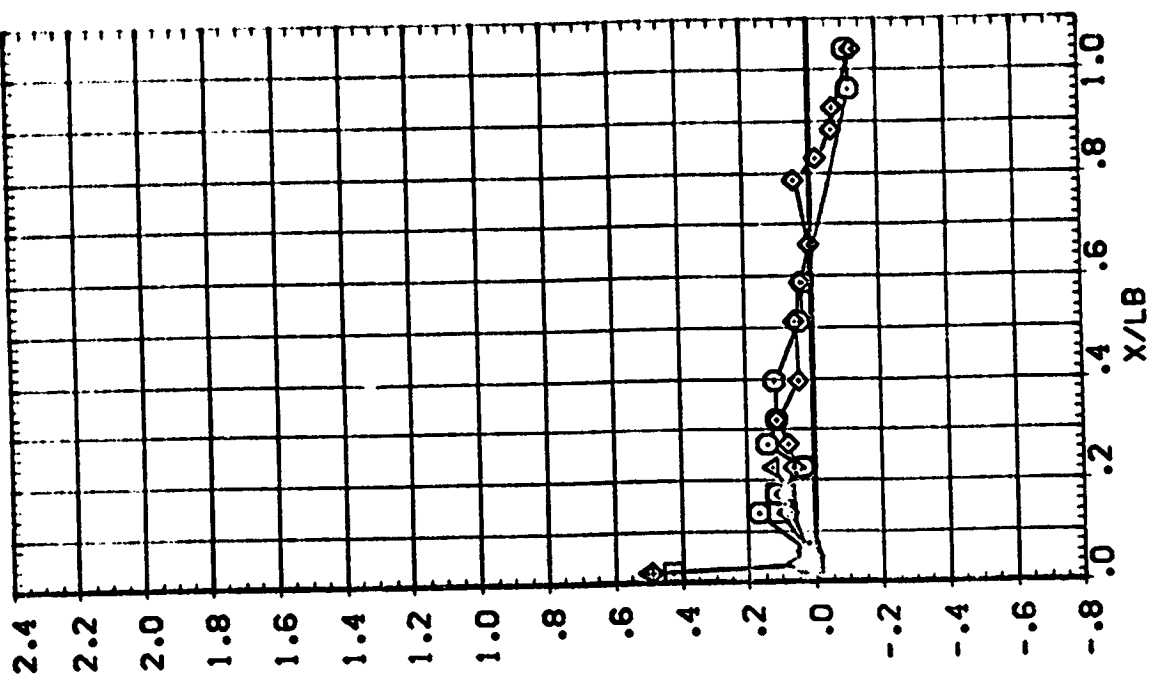
PM: .000
 20.000
 40.000
 55.000

BETAT -4.250
 2.230

MACH 2.999

PARAMETRIC VALUES
 ALPHA: -8.000
 RUDER .000
 RUDLR .000

ORBIT:NC
 ELEVON .000

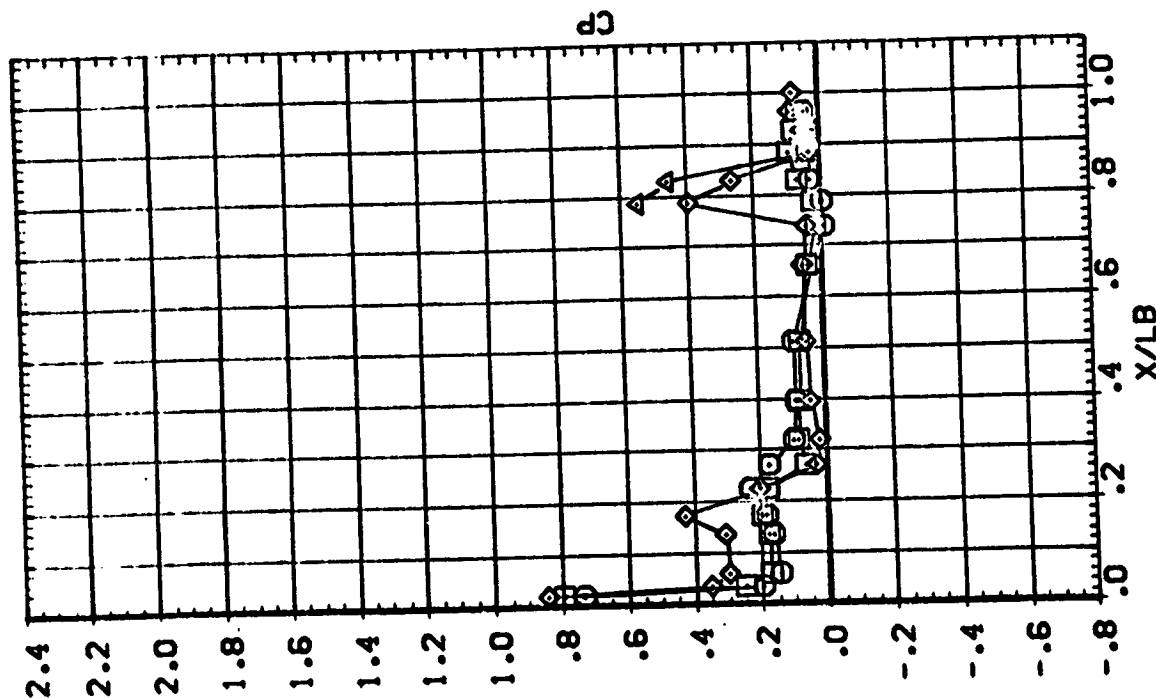
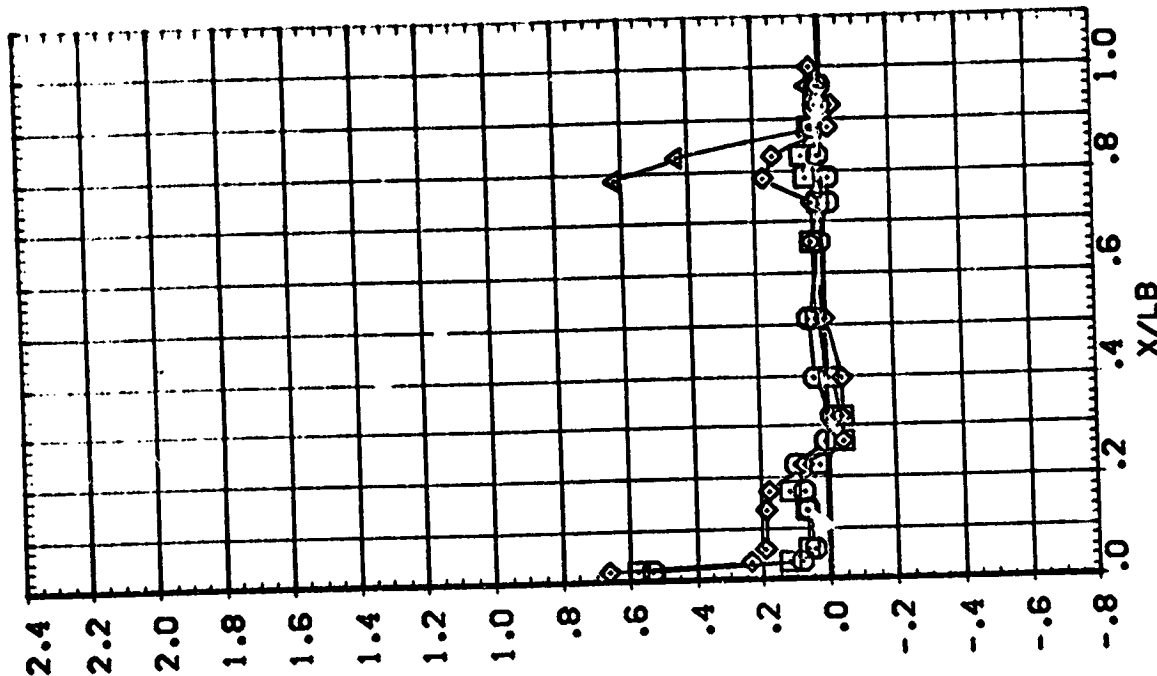


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

SWBC
 70.000
 80.000
 90.000
 100.000
 110.000

REI BETAT WACH
 70.000 -4.750 2.999
 80.000 2.230

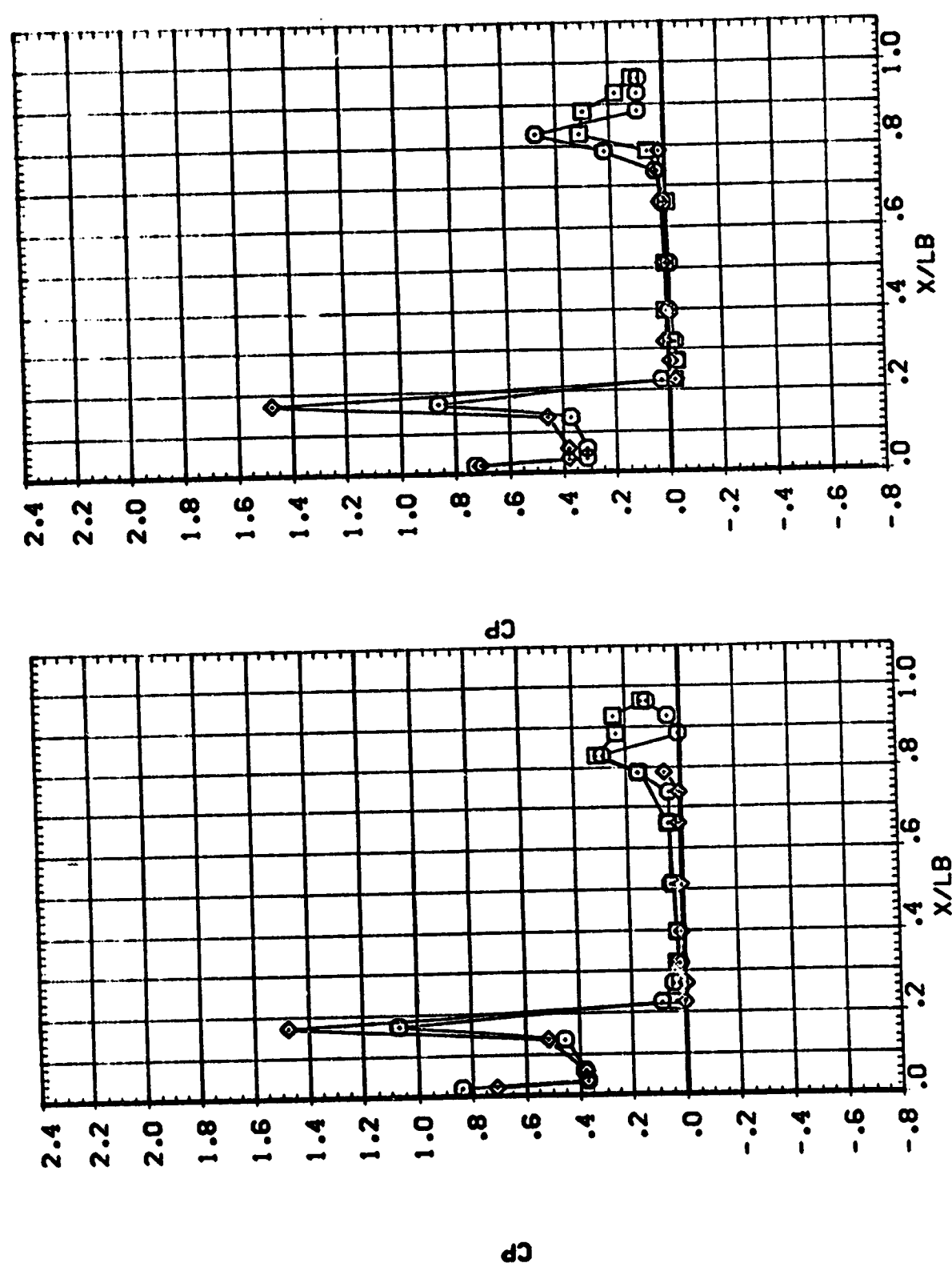
PARAMETRIC VALUES
 ALPHAT -8.000 ORBITAL .500
 RUDDER .000 ELEVON .000
 ROLLR .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 1A9 C2A - S3 - 19 ORBITER FUSELAGE (R3N3C2)

SYMBOL	PMI	BETAT	MACH	PARAMETRIC VALUES
()	:50.000	-4.750	2.999	-0.000
	:65.000	2.730		ORBITAL
◇	:80.000			ELEVON
				.000
				.000



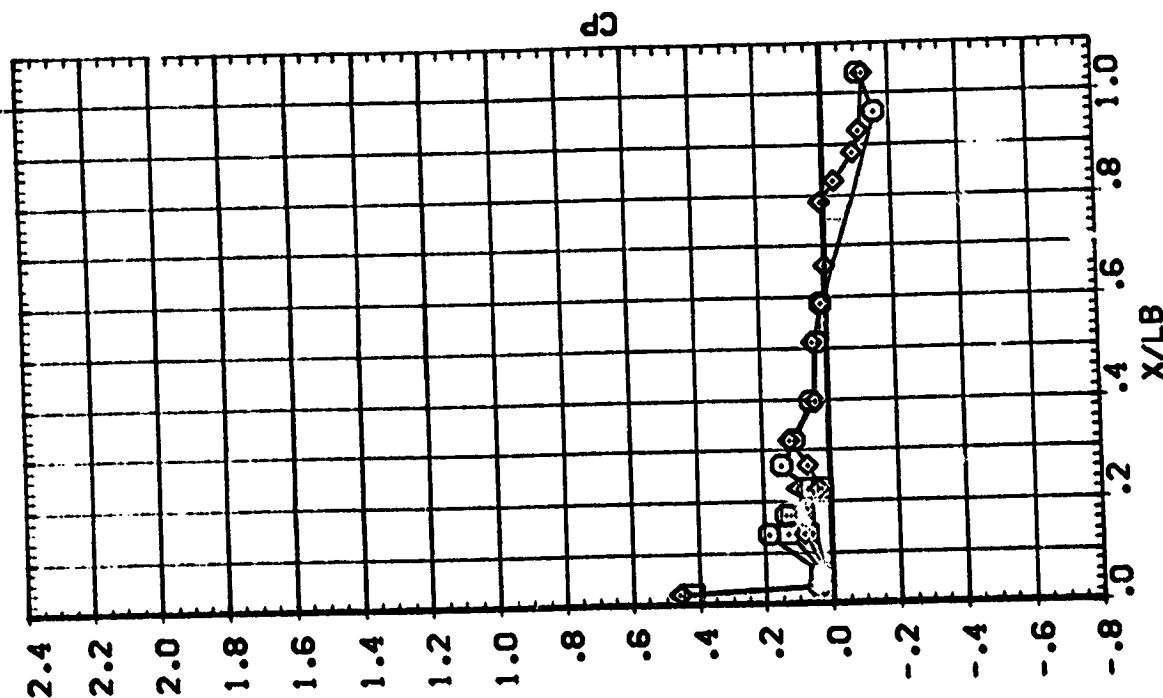
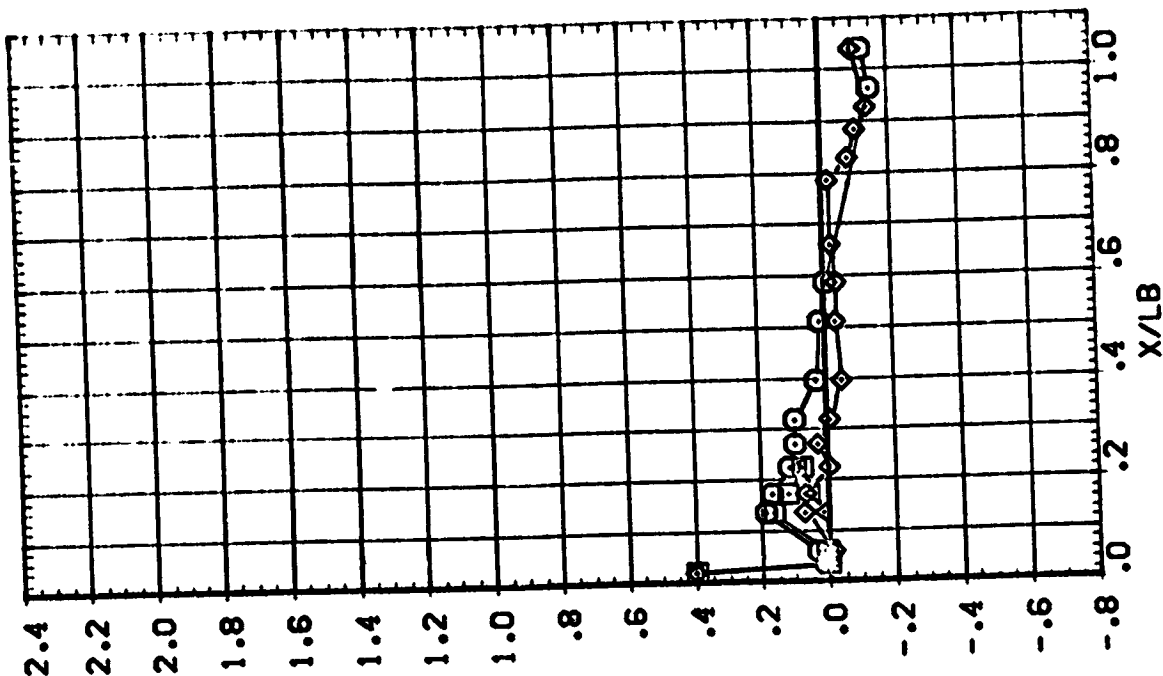
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

SYSC. 0110
 P-1: .000
 20.000
 40.000
 55.000

BETA° 4.400
 8.750

MACH 2.999

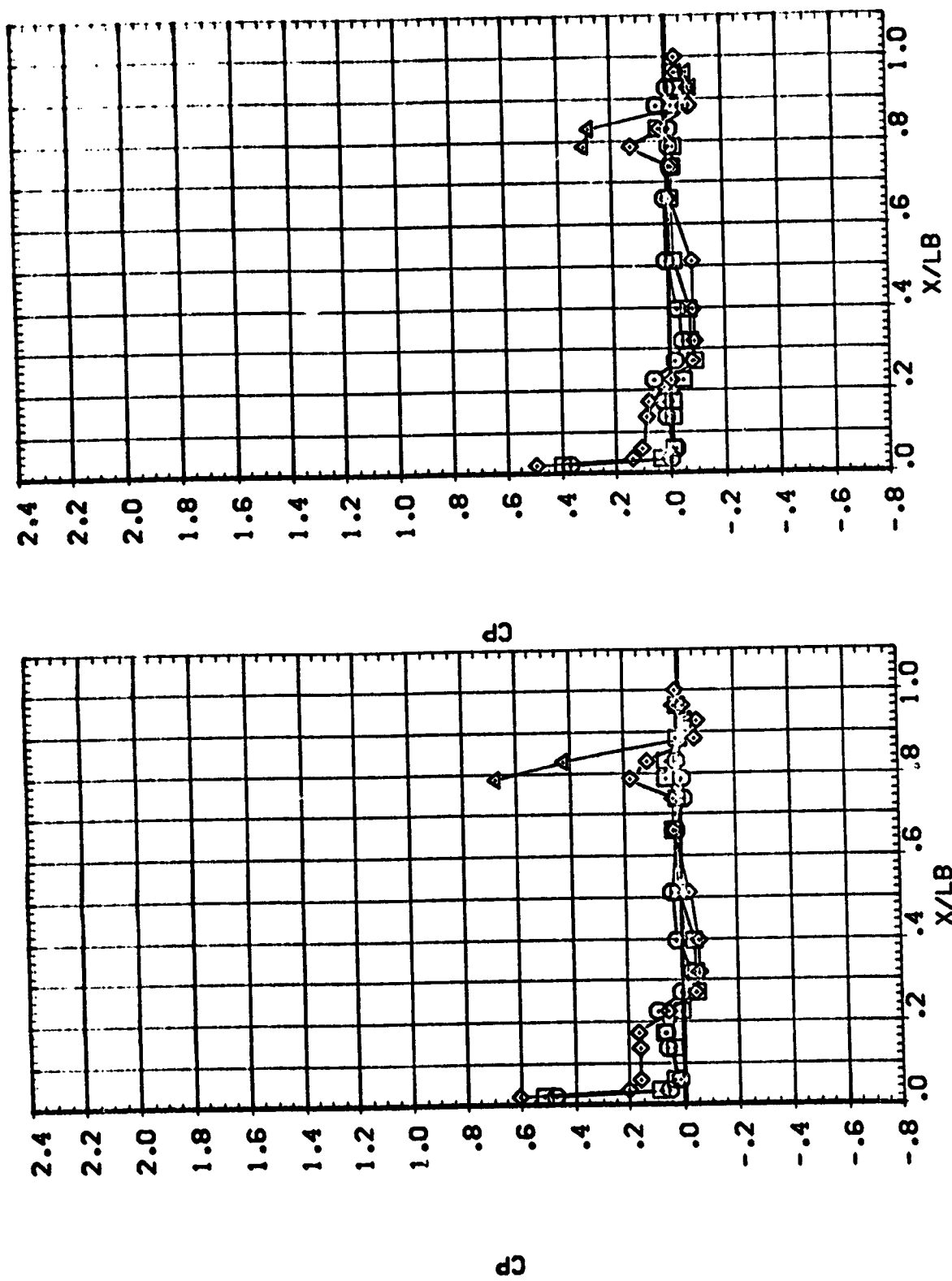
PARAMETRIC VALUES
 ALPHA° -8.000
 RUDER .000
 RUJFLR .000
 ORBITING .500
 ELEVON .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 :A9 C2A + S3 + 19 ORBITER FUSELAGE (RBNB02)

SYMBOL	PAI	BETAT	MAC-	PARAMETRIC VALUES
○	70.000	4.400	2.999	ALPHAT -8.000 ORB:NC .500
□	90.000	8.750		RUDDER .000 ELEVON .000
◇	170.000			RUDFLR .000
△	35.000			



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 :A9 C2A - S3 + 19 ORBITER FUSELAGE (RBN302)

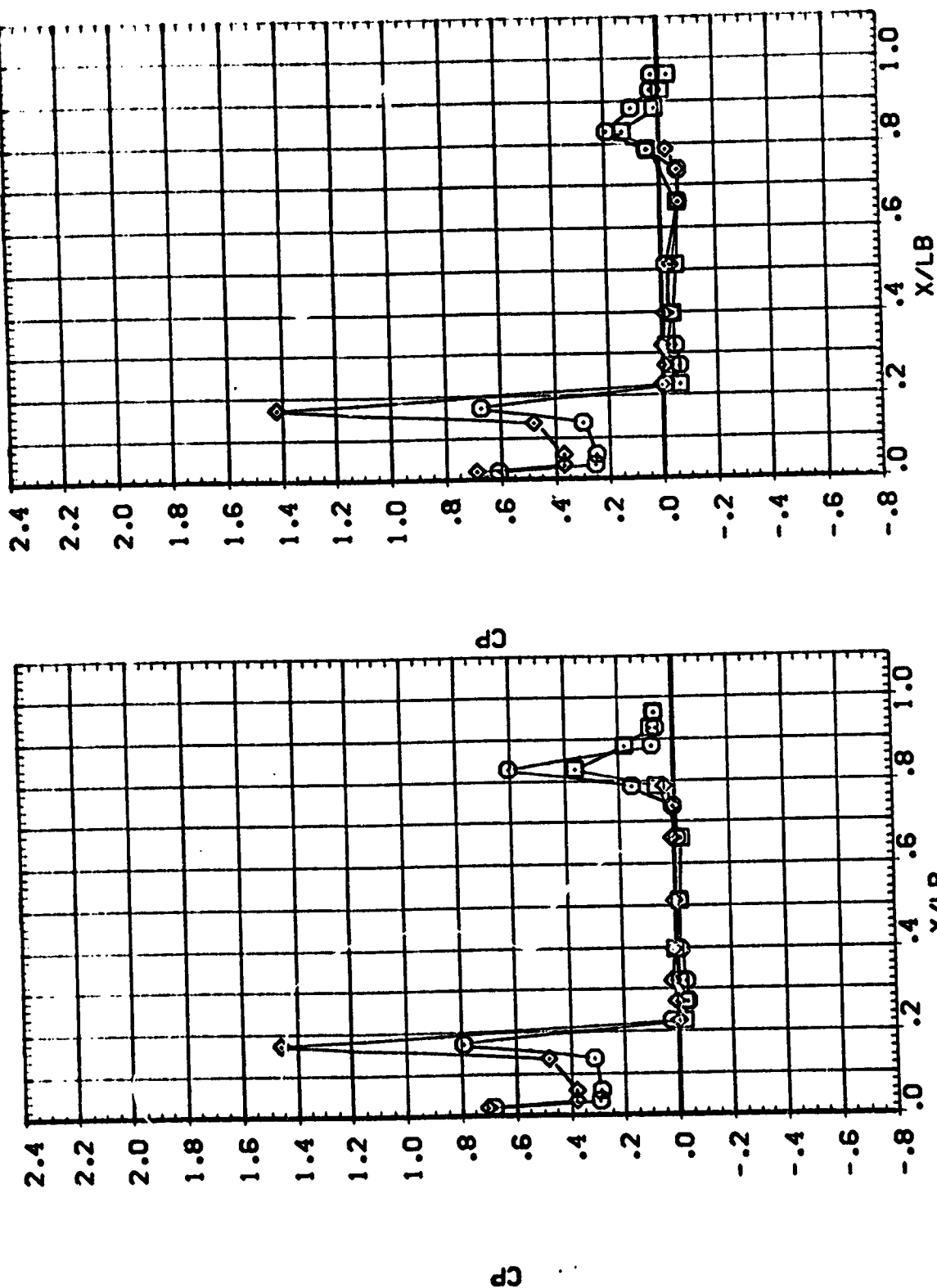
SYSC-
O I I
◇

MA: 50.000
:25.000
:80.000

BE:AT 4.400
8.750

MACH 2.999

PARAMETRIC VALUES
ALPHA: -8.000
RUDER .000
RFLR .000
OFF:INC
ELEV:INC



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

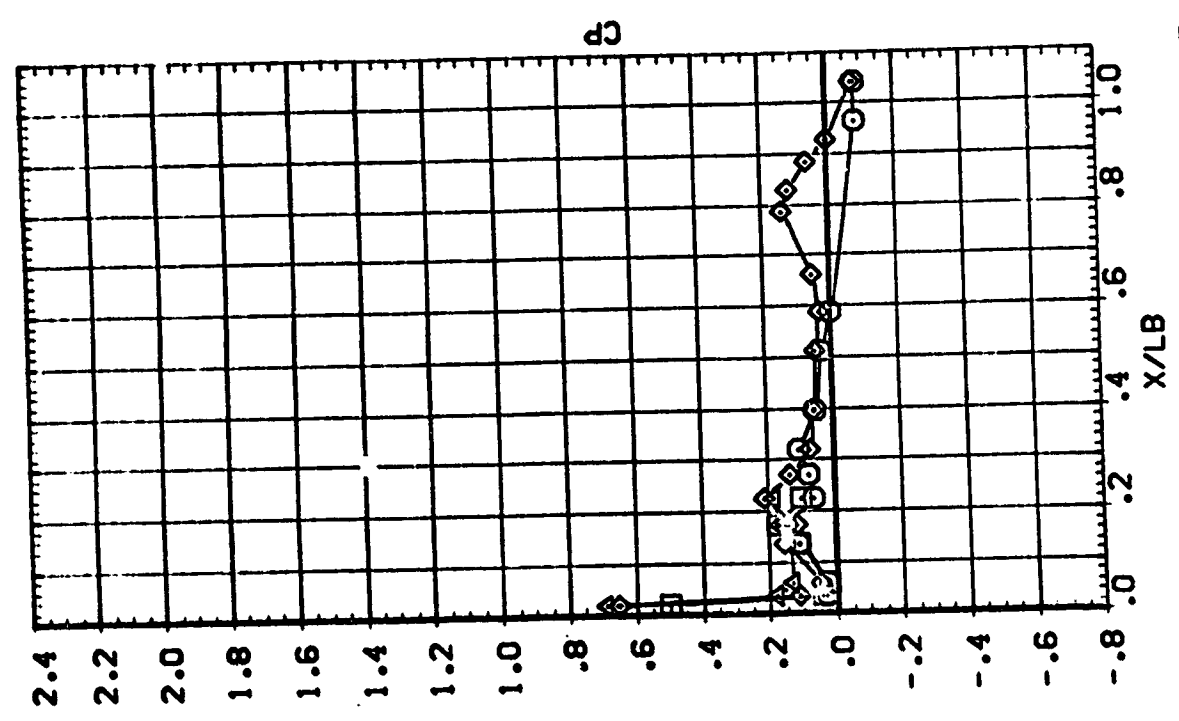
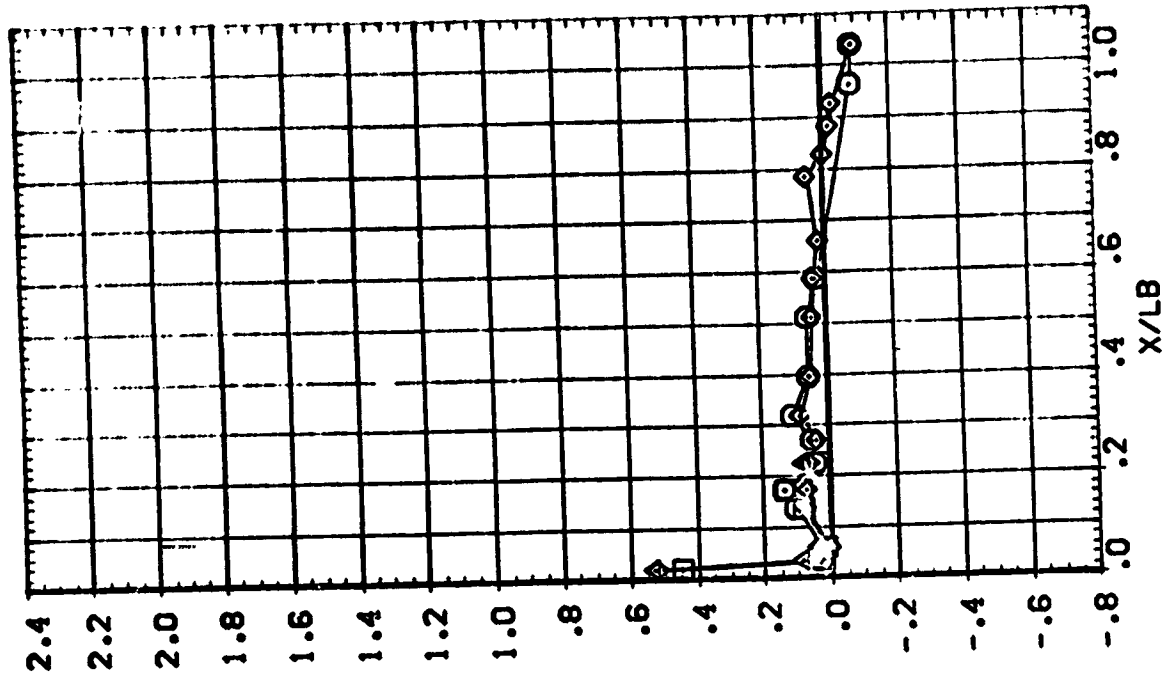
AVES 87-707 1A9 02A - S3 - 19 CR8:TER FUSELAGE (R3\3C2)

PARAMETRIC VALUES
 -8.000 DRG:NC
 .000 ELEV:EN
 .000

ALPHA
 RUDER
 RUDLR

BETA
 MACH
 -4.330 3.502
 2.760

SYMBOL
 O
 I
 Δ



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

UNCLASSIFIED

AVES 87-707 1A9 C2A - S3 - 19 ORBITER FUSELAGE

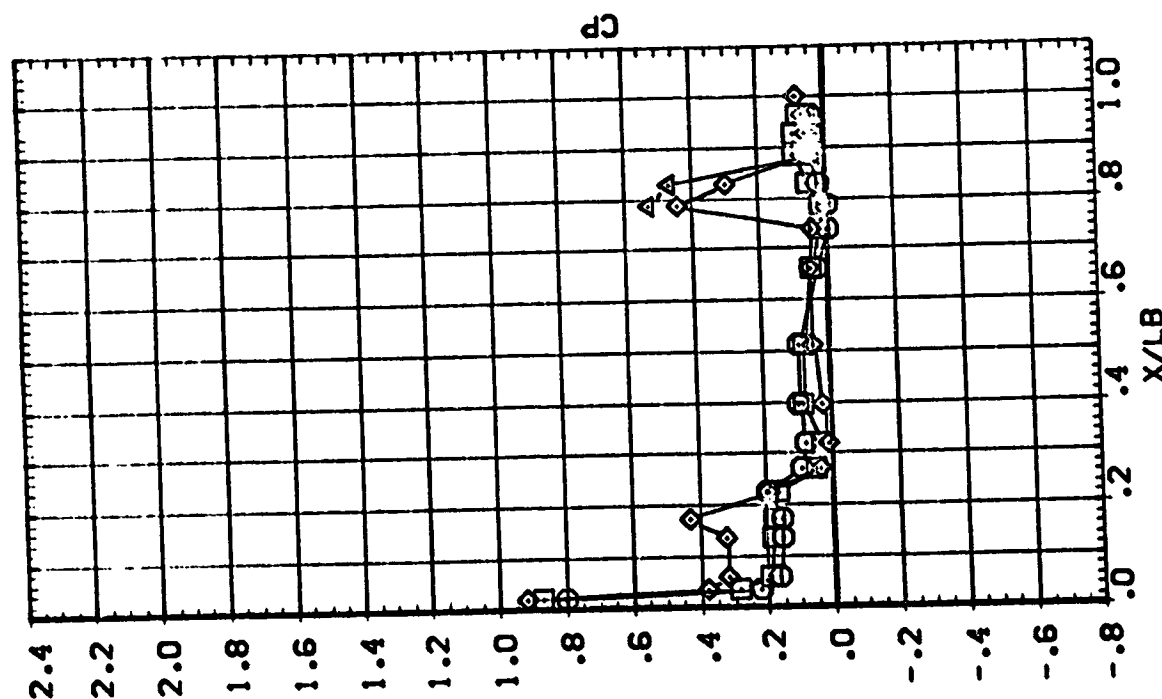
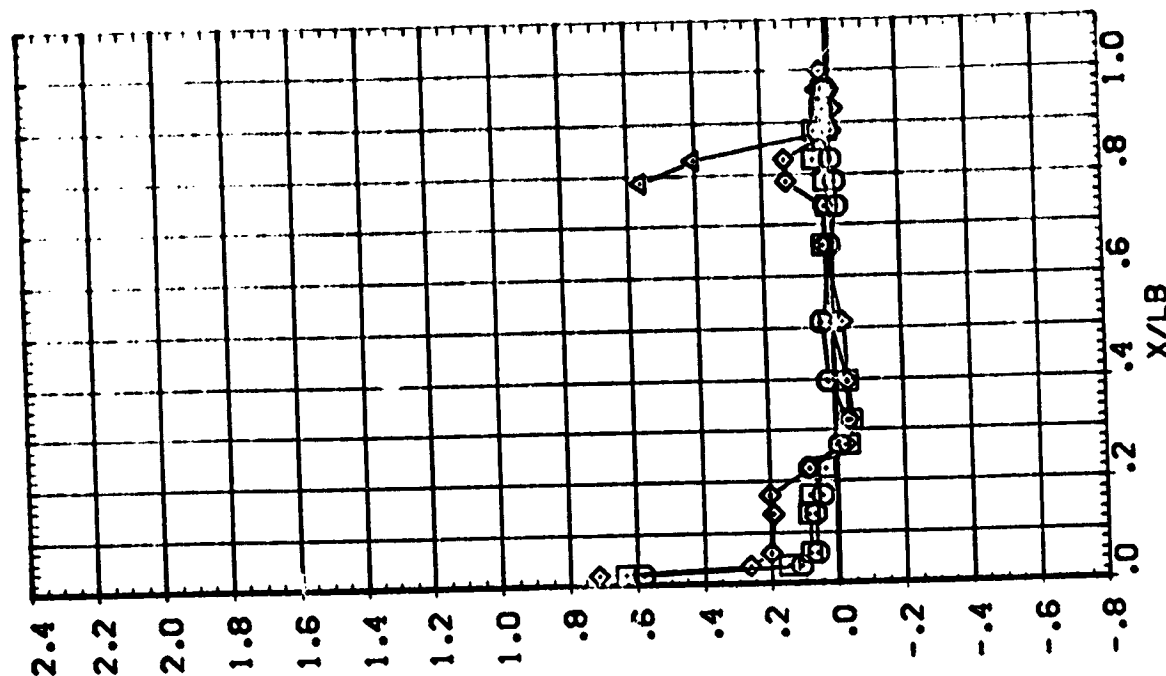
UNCLASSIFIED

PARAMETRIC VALUES
 ALPHA: -8.000
 RUDDER: .000
 RUDDER: .000
 ELEV: .000

ALPHA: -8.000
 RUDDER: .000
 RUDDER: .000
 ELEV: .000

BEAT: 4.330
 WACH: 3.502
 70.000
 90.000
 100.000
 110.000

SYMBOL
 O
 O
 O
 O



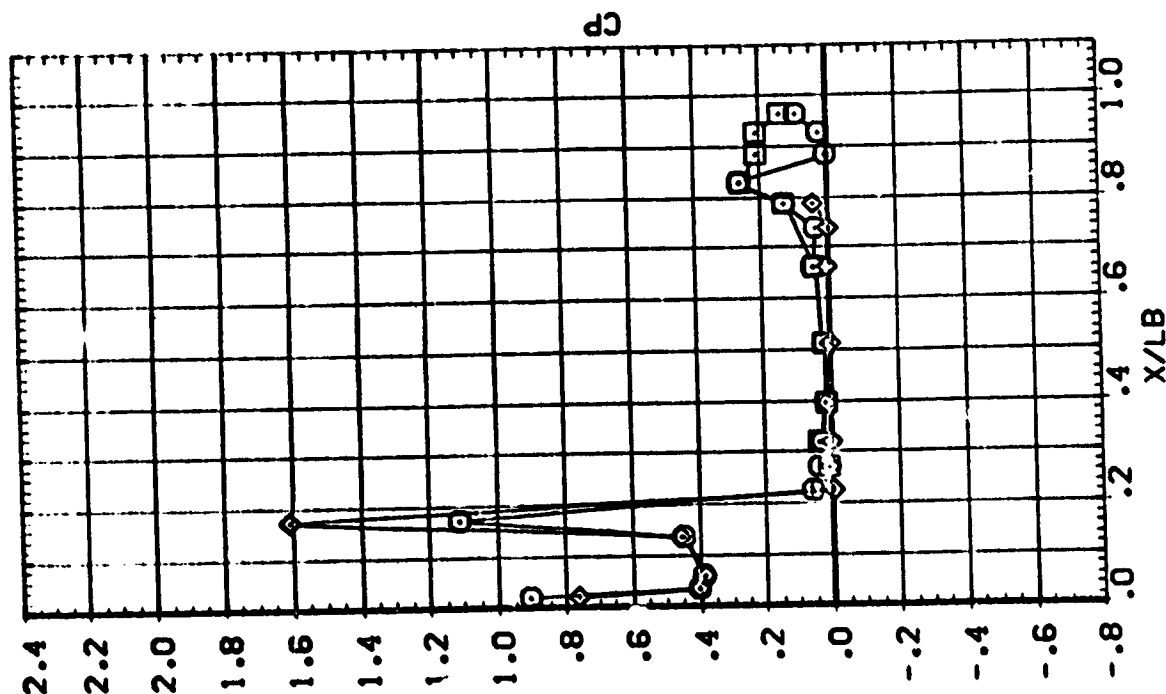
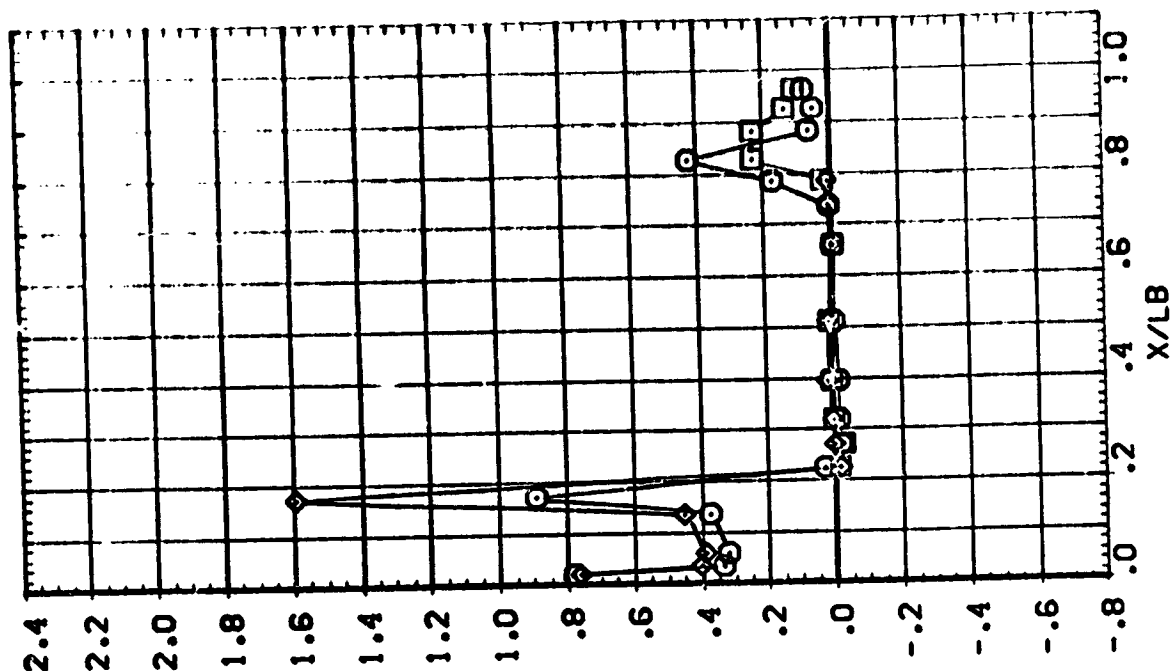
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 1A9 C2A + S3 + 19 ORBITER FUSELAGE (RBNB02)

SYMBOL
 ○
 □
 ◇

PA: 50.000
 SEAT 4.300
 MACH 3.502
 85.000
 80.000

PARAMETRIC VALUES
 ALPHAT 0.000
 RUDDER 0.000
 RUOFLR 0.000
 500
 500



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-7C7 :A9 02A + S3 + 19 CRBITER FUSELAGE (R8N302)

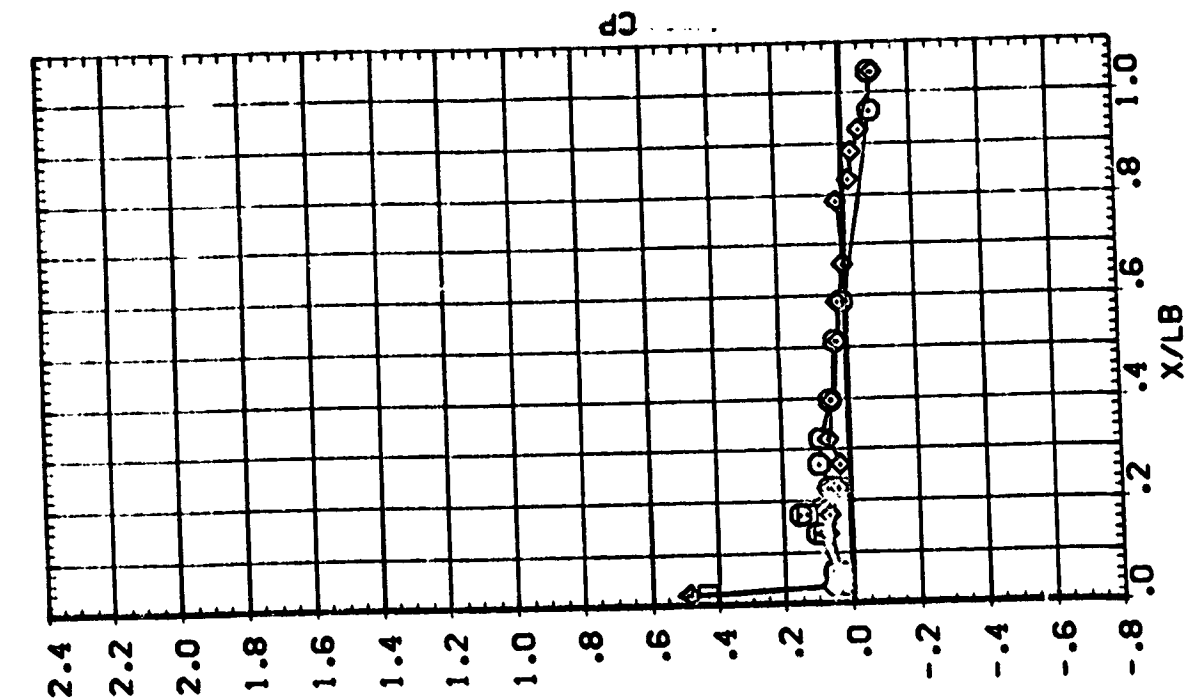
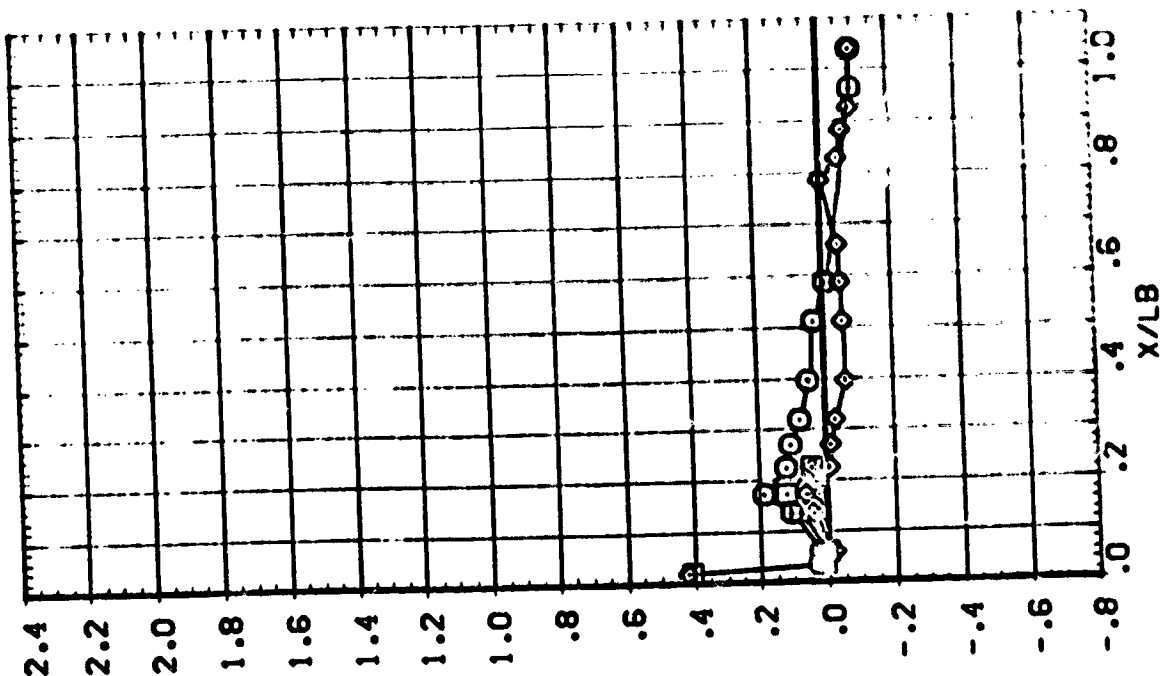
SYNTH
 0
 0
 0
 0

PA: .000
 20.000
 40.000
 55.000

BETAT 4.480
 0.910

MACH 3.502

PARAMETRIC VALUES
 ALPHA -8.000
 RUDER .000
 RFLR .000
 ORBITING .000
 ELEV .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 :A9 C2A - S3 - '9 ORBITER FUSELAGE (R8\B02)

SYMBOL
 O
 I
 Δ

AL: 70.000
 90.000
 120.000
 135.000

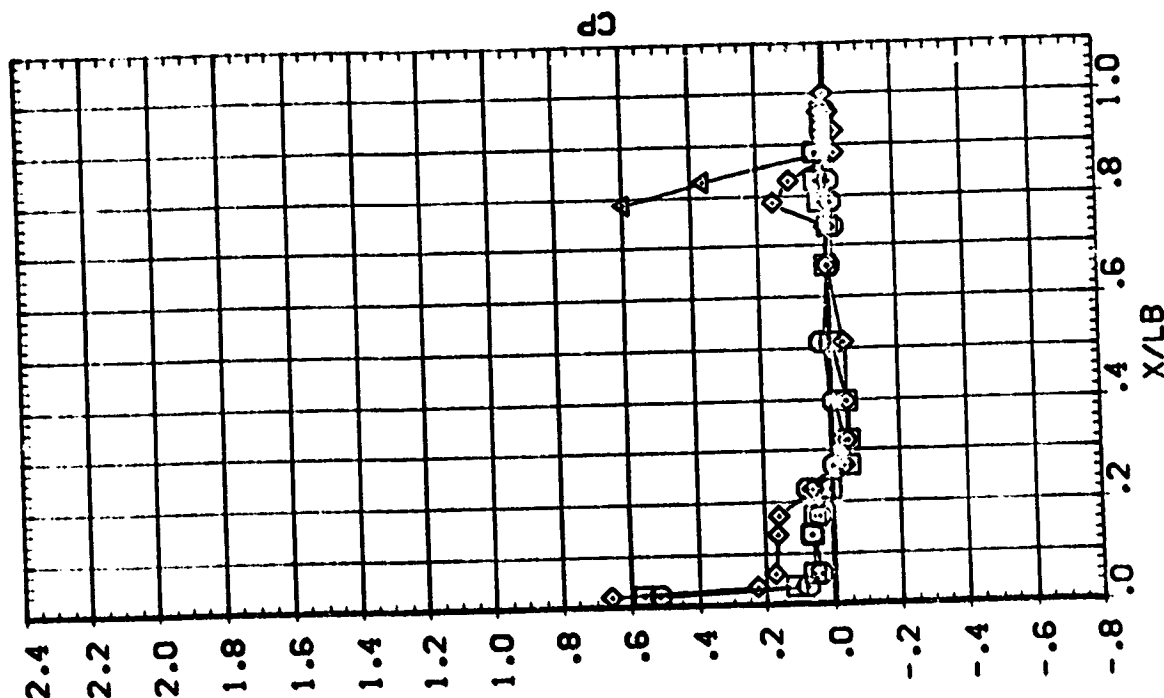
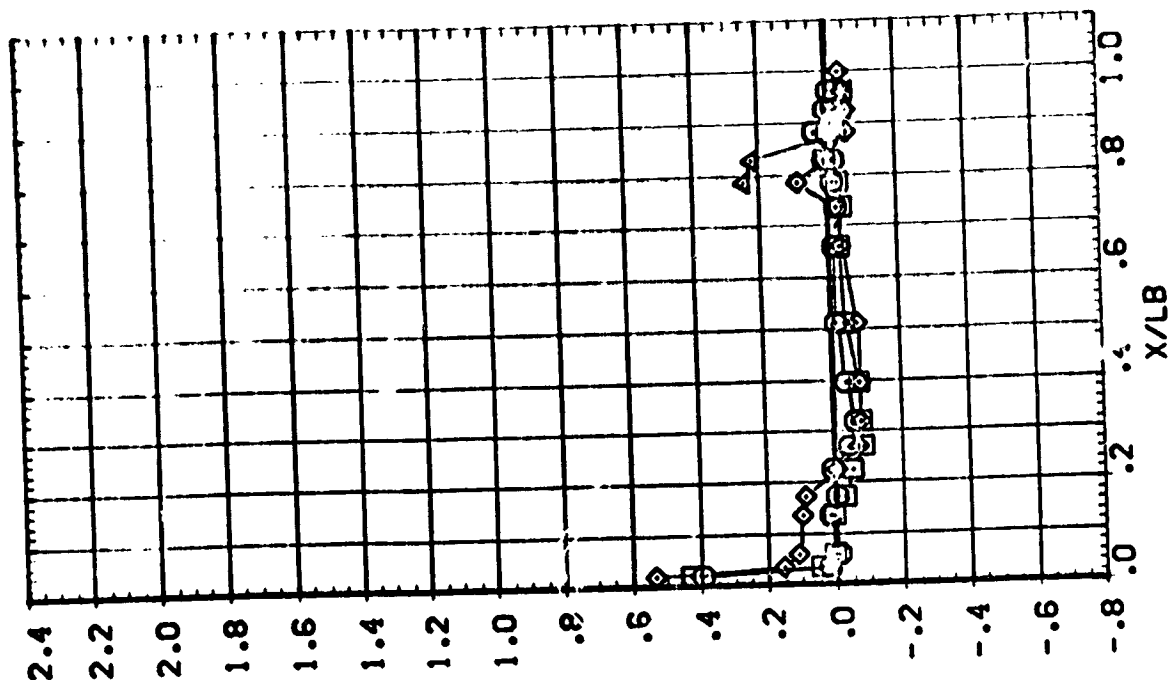
BEAT 4.480
 8.960

MACH 3.502

ALPHA
 RUDDER
 RDTLP

PARAMETER VALUES
 -8.000
 0.000
 0.000
 0.000

1000
 1000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 :A9 32A + S3 - 19 FEB 1968

SYMBOL
 □ □ □ ◇

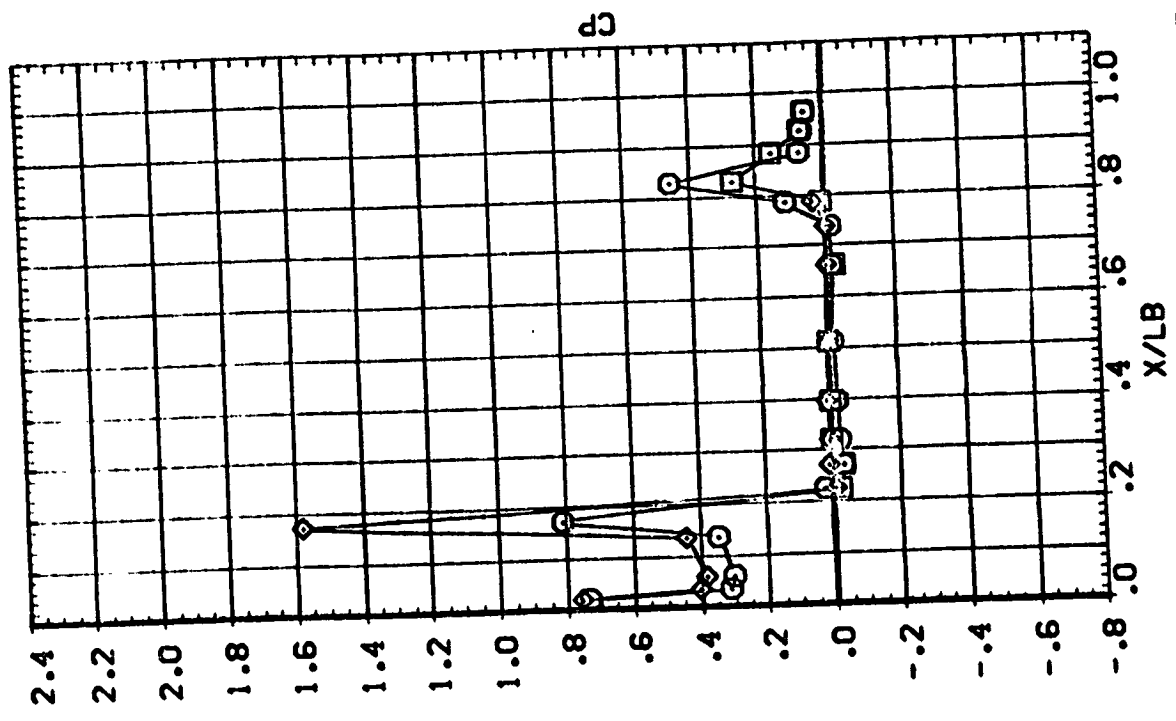
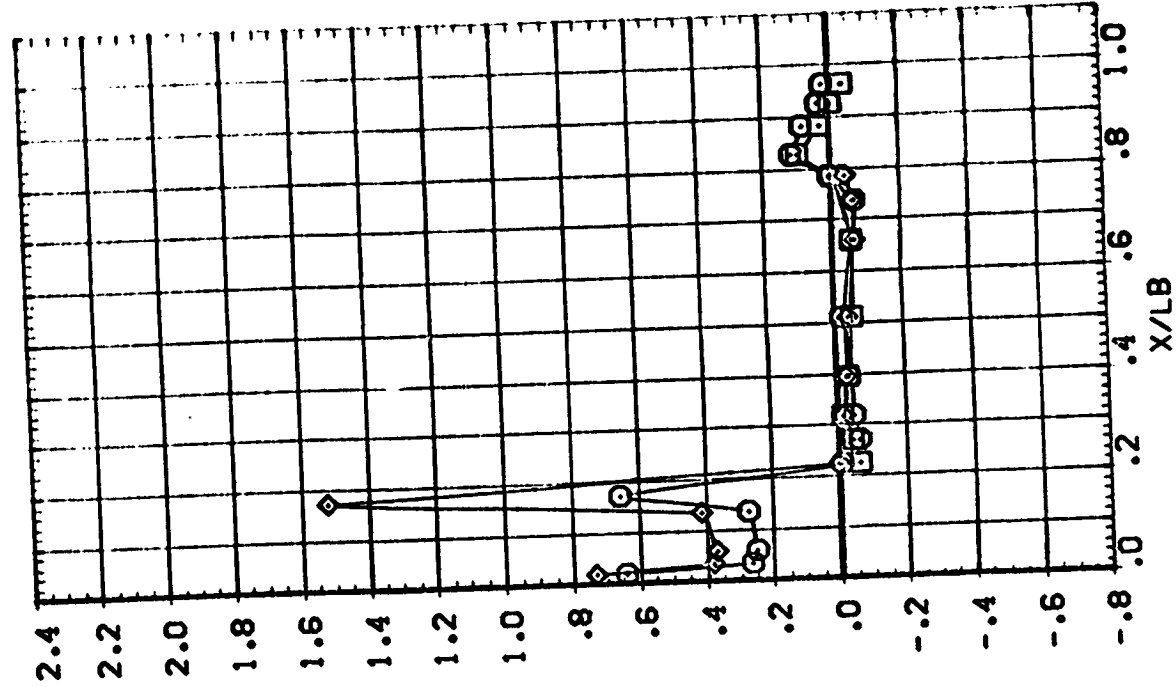
PA: 150.000
 165.000
 180.000

BETA: 4.480
 8.910

MACH: 3.502

ALPHAT
 RCDER
 RZFLR

PARAMETRIC VALUES
 -8.000
 .000
 .000



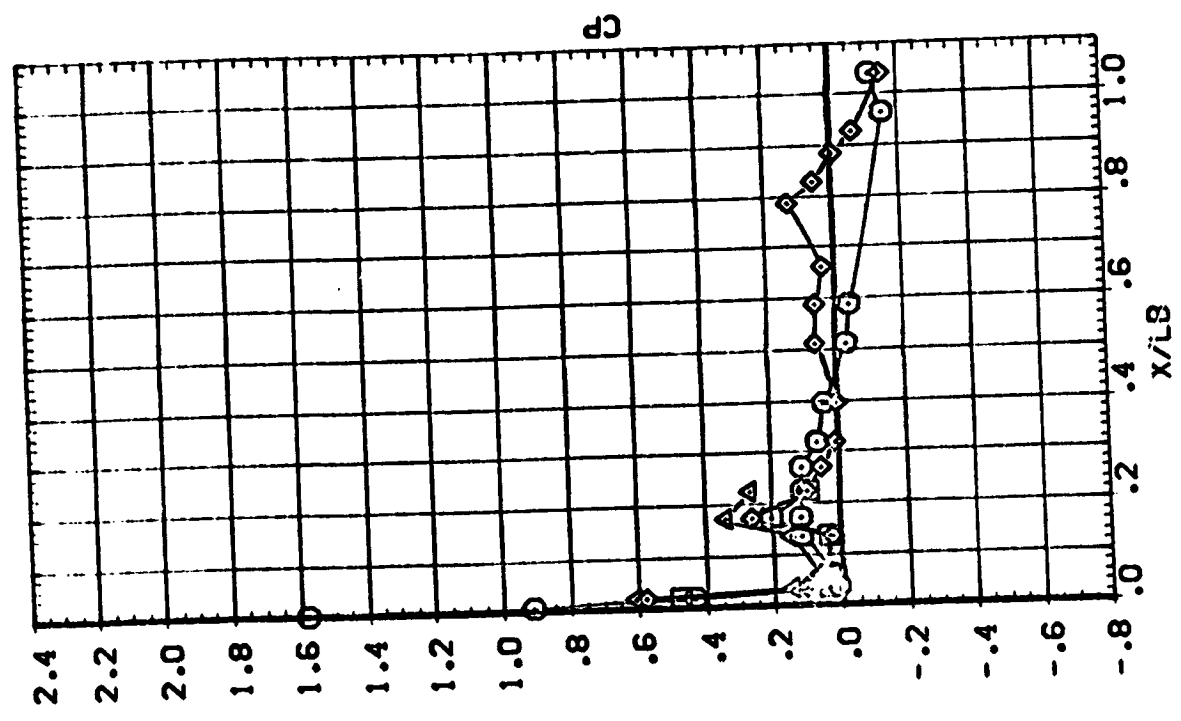
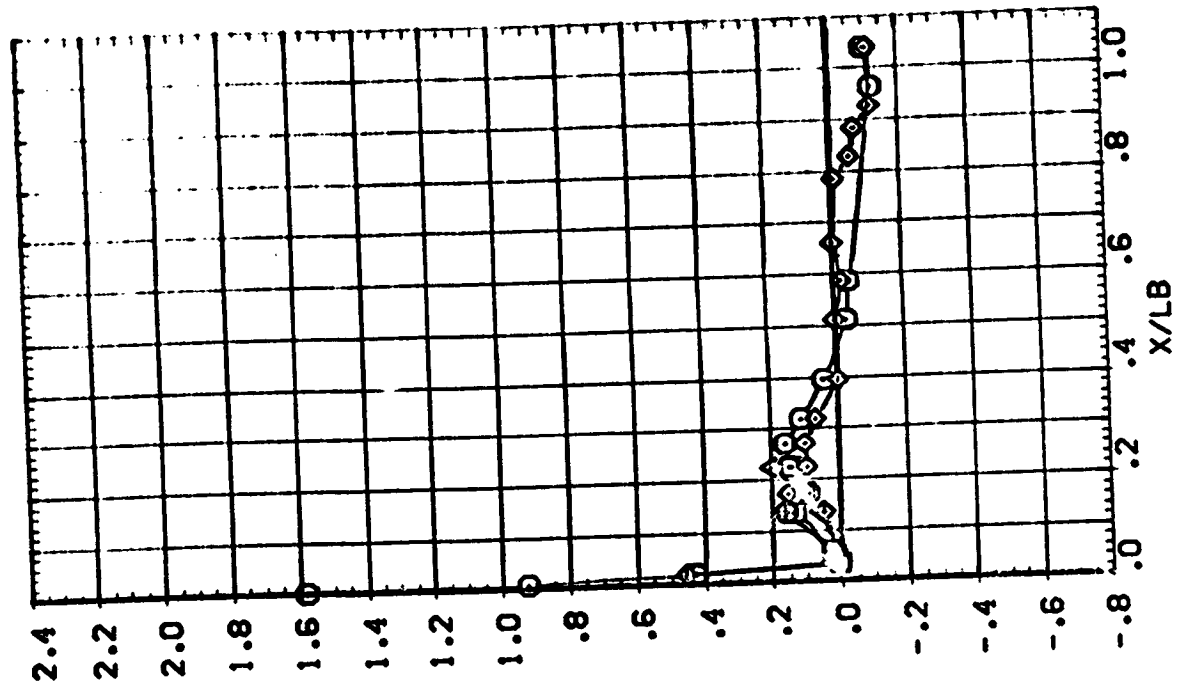
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 :A9 C2A + S3 + '9 ORBITER FUSELAGE (RBNB04)

PARAMETRIC VALUES
 ALPHAT -4.000
 RJOER .000
 RJOFLR .000
 SPSIC .500
 ELEVON .000

PAI: BETAT MACH
 -4.190 2.498
 20.000
 40.000
 55.000

SYMB: O: D: A:



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-100 .AG JAN 1 JJ

SYMBOL
 ○
 □
 ◇
 △

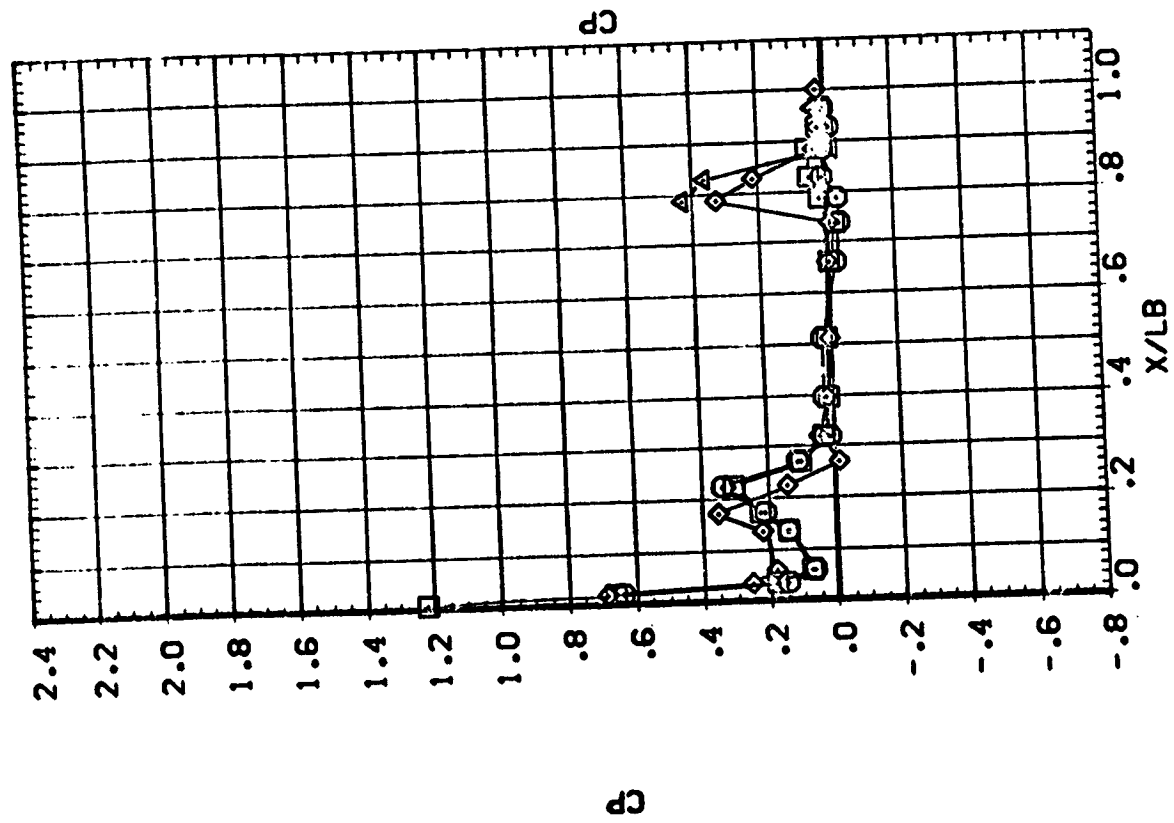
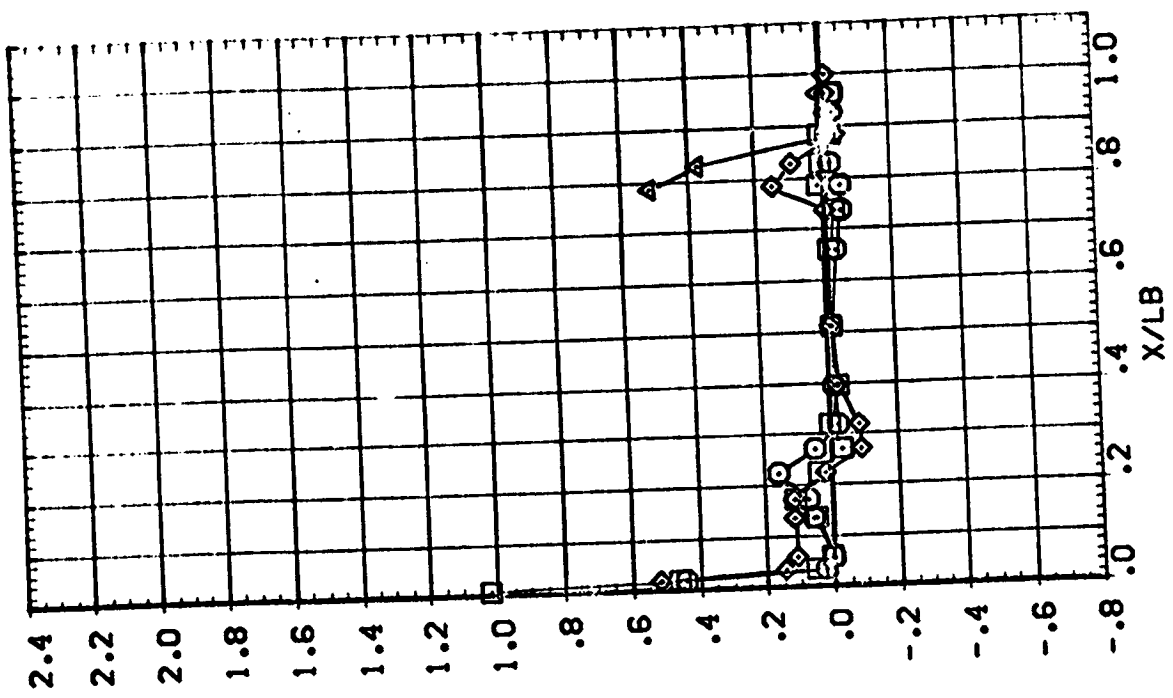
PA: 75.000
 90.000
 120.000
 135.000

BETAT -4.190
 2.180

MAC 2.498

PARAMETRIC VALUES
 ALPHAT -4.000
 RODER .000
 RJOFLR .000

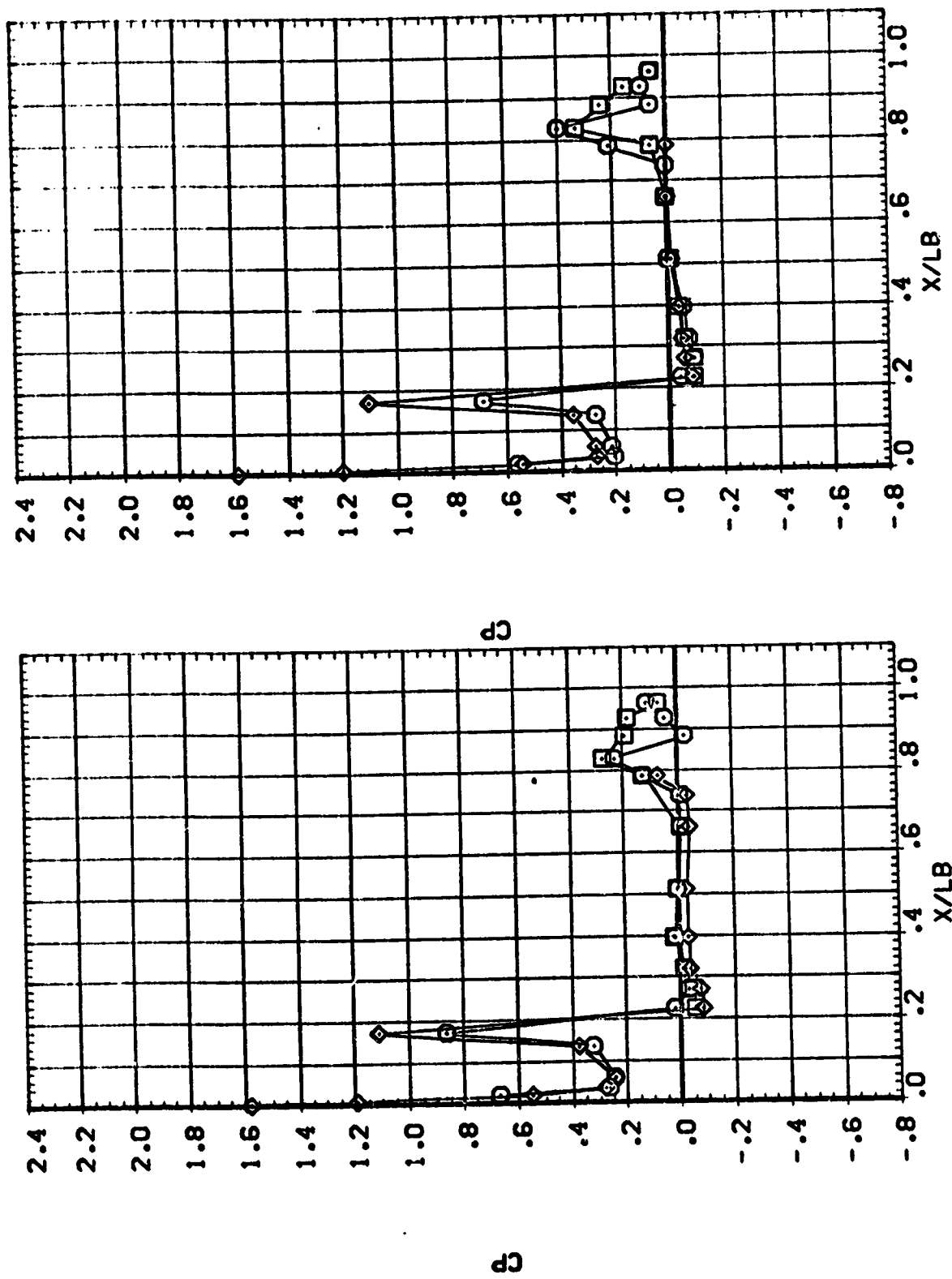
.500
 .000
 .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 IAS C2A - S3 - 19 ORBITER FUSELAGE (RBN304)

SYSC	PHI	BETAT	MACH	PARAMETRIC VALUES
0:1:0	150.000	-4.190	2.498	ALPHAT
1:0:0	165.000	2.180		RJODER
1:80.000	180.000			RJOFER
				-4.000
				.000
				.000
				.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

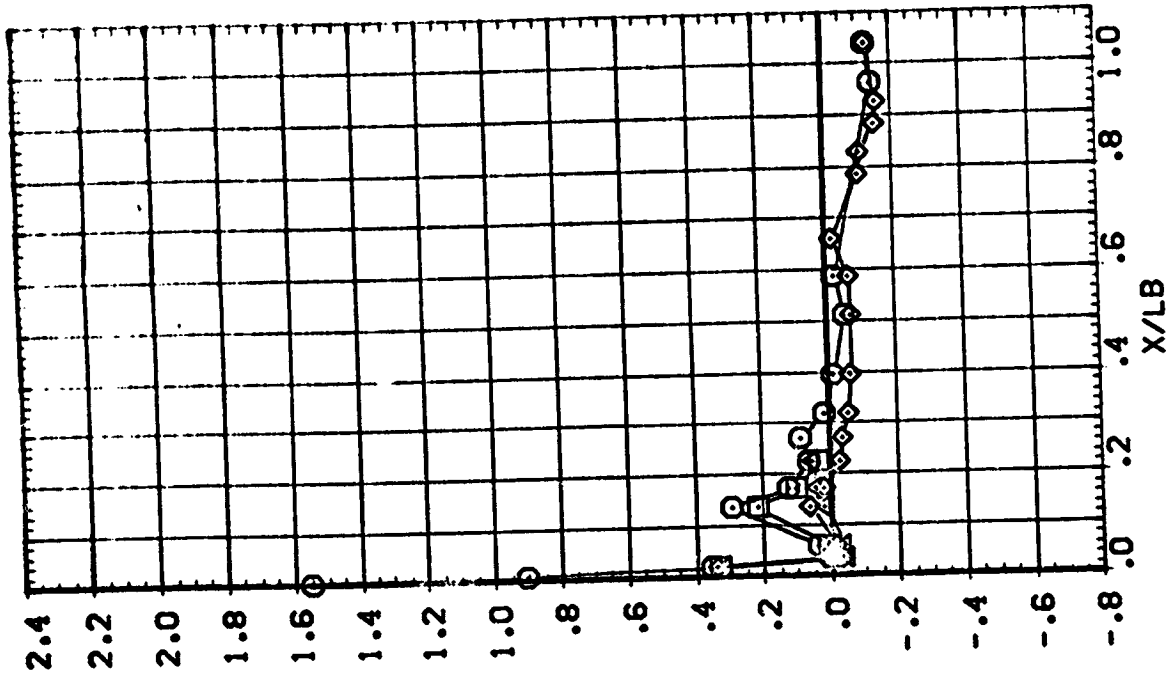
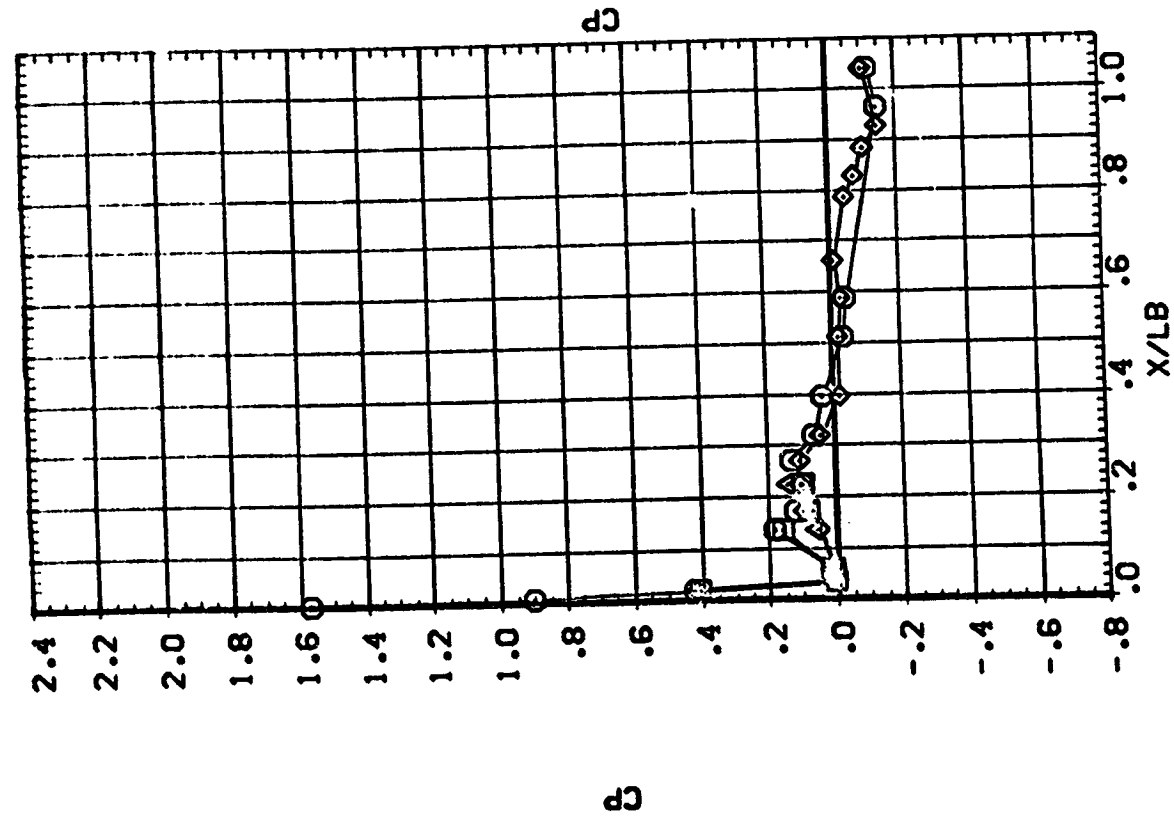
AVES 87-101 .A3 C1A JJ

SWGC
 ○
 ◇
 △

PM: .000 MACH 2.498
 20.000
 40.000
 55.000

BETAT 4.300
 8.550

PARAMETRIC VALUES
 ALPHAT .500
 ORBIT INC .000
 PLDOR .000
 RZFLP .000
 ELEVON .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 1A9 C2A - S3 - 19 ORBITER FUSELAGE (RBNB04)

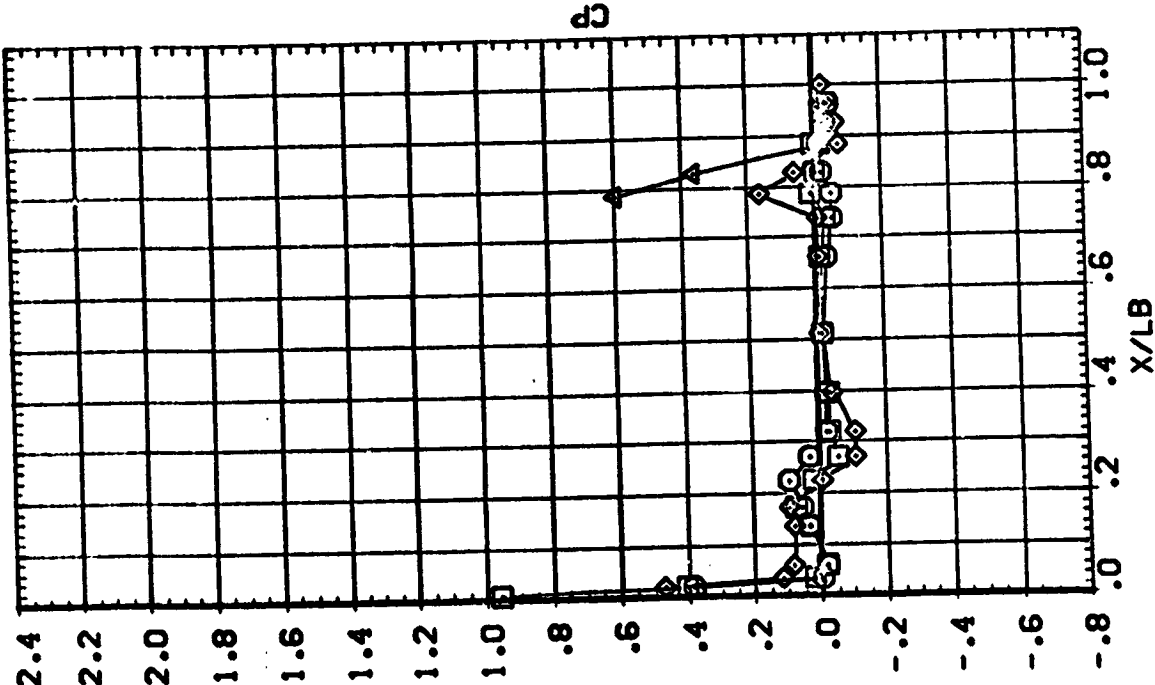
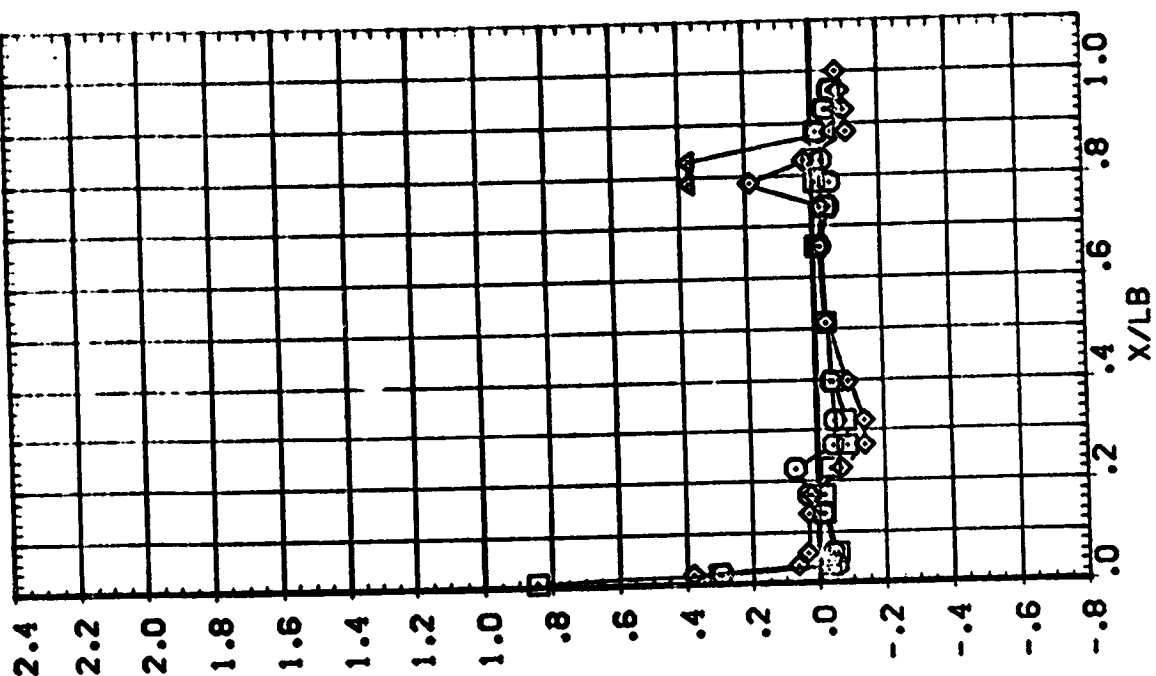
SYMBOL
 ○
 ◇
 △

PHI
 70.000
 90.000
 170.000
 35.000

BETAT
 4.300
 8.550

MACH
 2.498

PARAMETRIC VALUES
 ALPHAT
 RUDER
 RUDLR
 -4.000
 .000
 .000
 ORBINC
 ELEVON
 .500
 .500



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 1A8 02A + 53 + 19 JNBH1ER 0ULL100

SYMBOL
 ()
 ◇

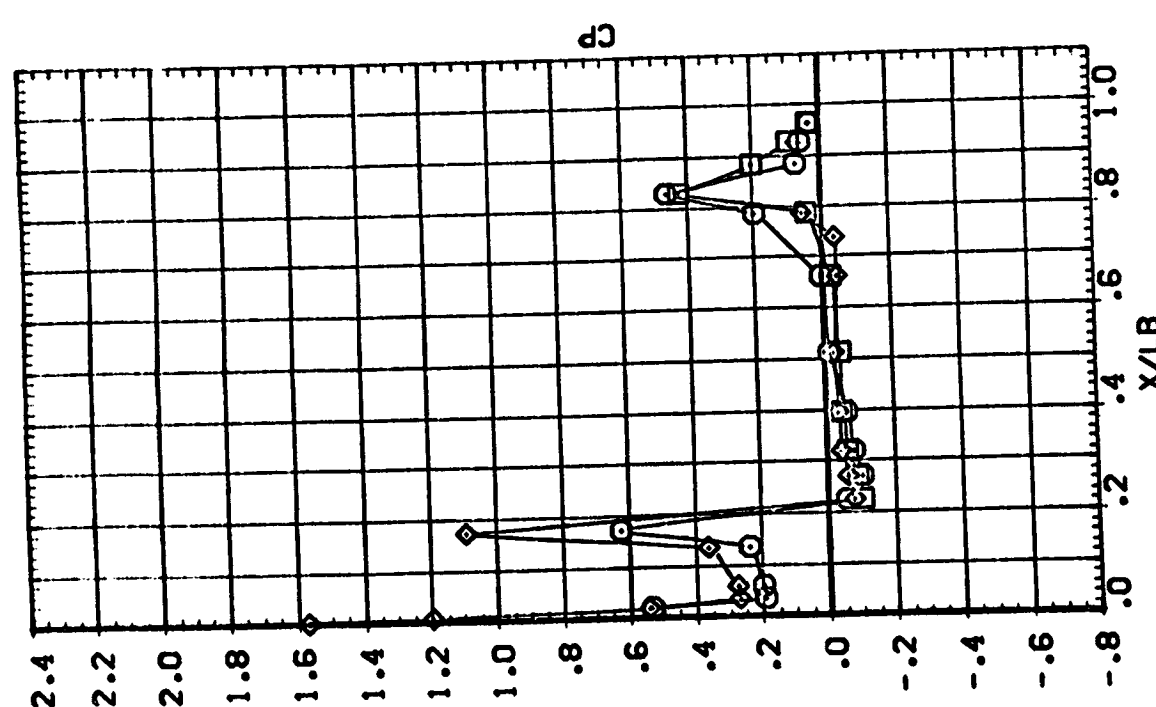
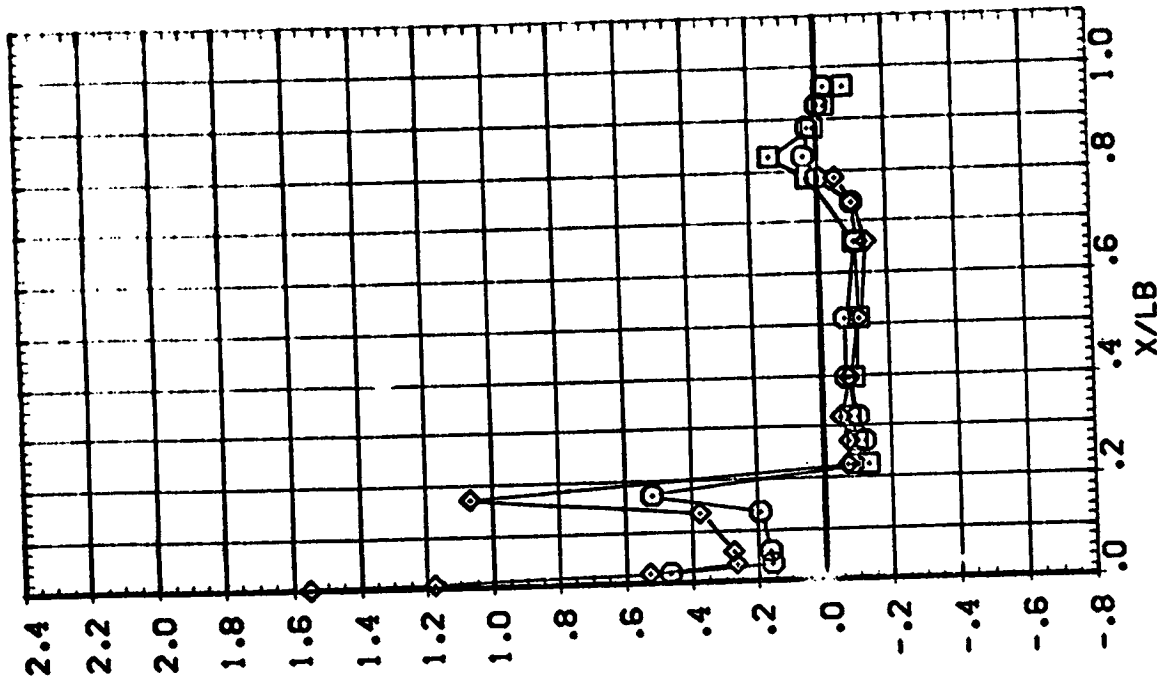
PA: 150.000
 165.000
 180.000

BETAT 4.300
 8.550

MACH 2.498

PARAMETRIC VALUES
 ALPHAT -4.000
 RUDDER .000
 RUDDER .000

.500
 .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

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AVES 87-707 1A9 02A - S3 - T9 ORBITER FUSELAGE (RBNB04)

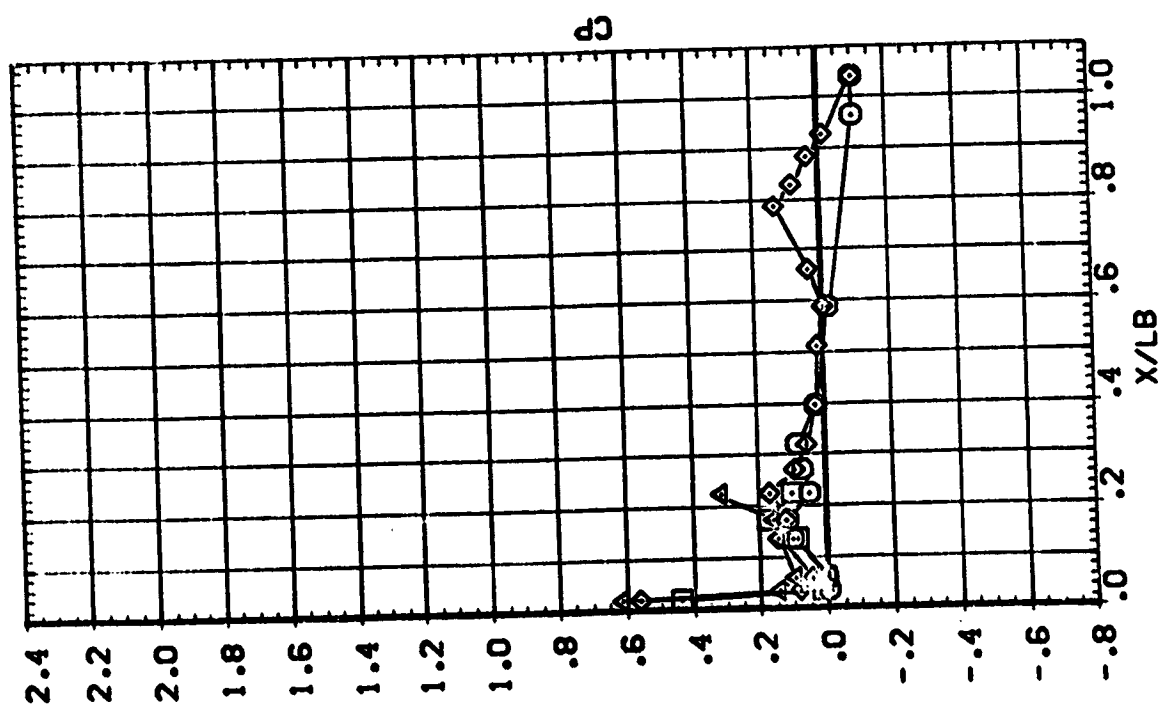
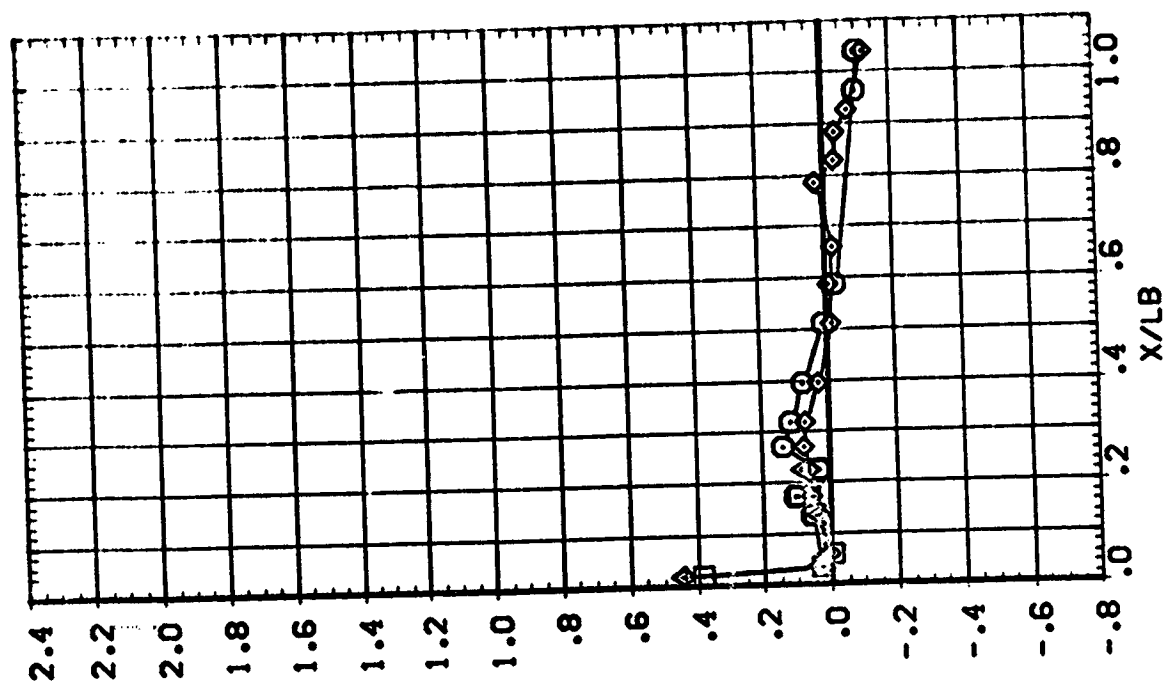
SYMBOL
 ○
 ◇
 △

PHI: .000
 20.000
 40.000
 55.000

BETAT -4.260
 2.210

MACH 2.999

PARAMETRIC VALUES
 ALPHAT -4.000
 RDOER .000
 RDOFLR .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 :A9 C2A + S3 + T9 ORBITER FUSELAGE (RBNB04)

SYMBOL
O
E
D
A

PAI 73.000
90.000
120.000
135.000

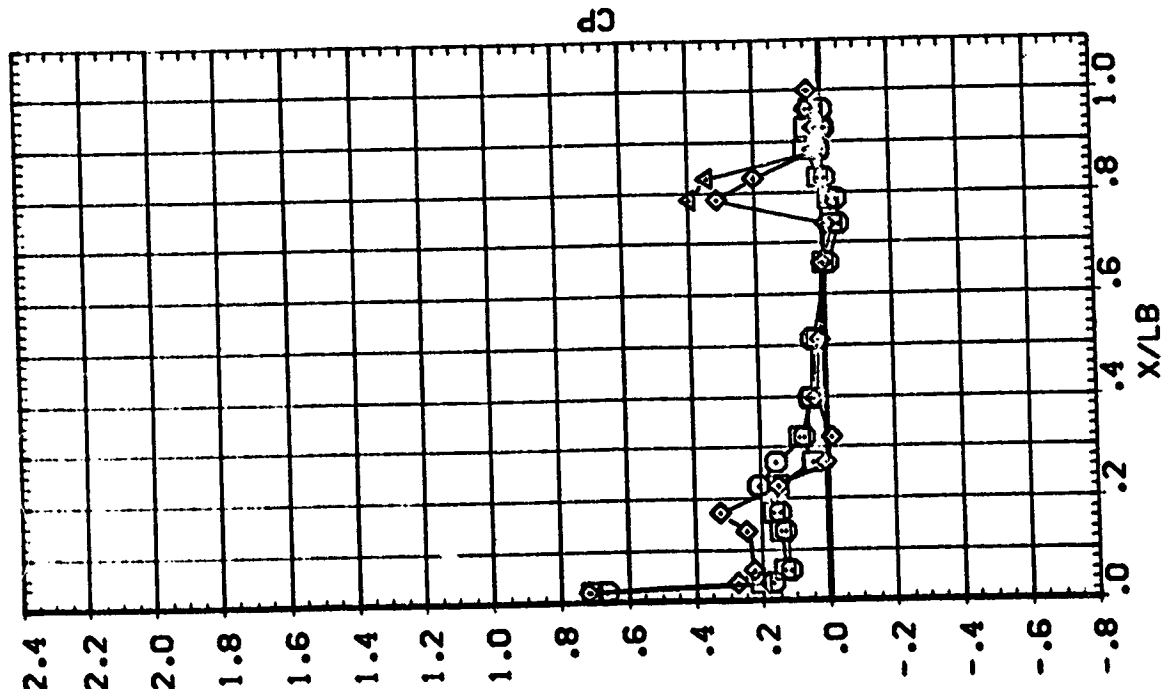
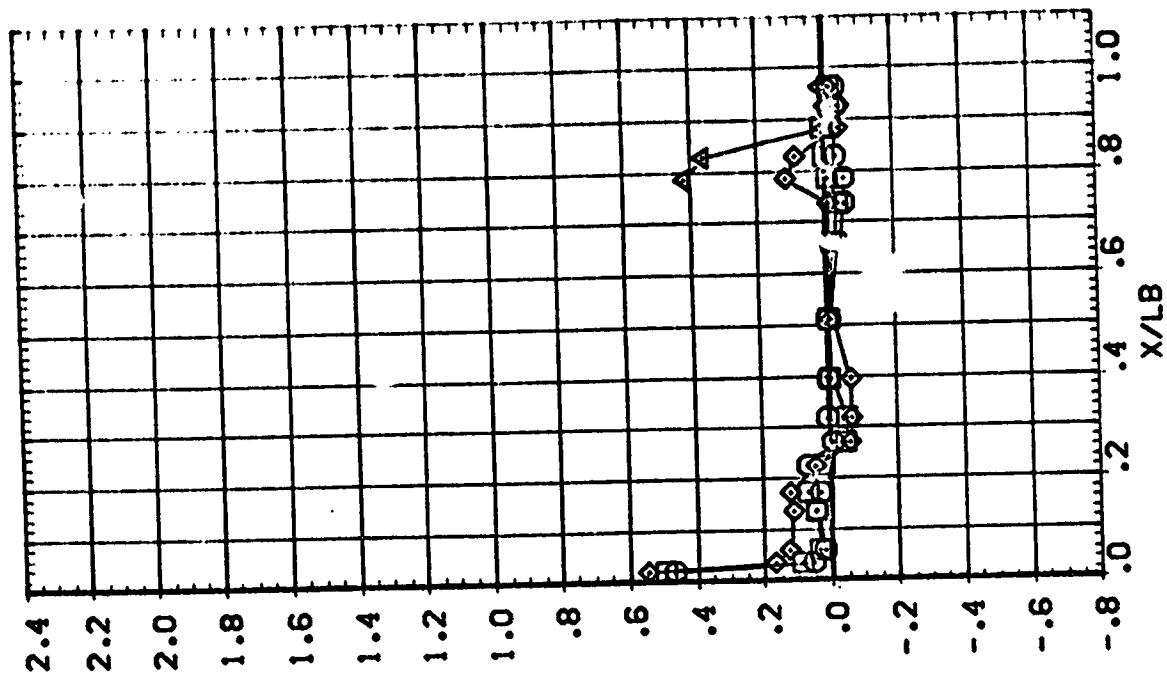
BETA 4.250
2.250

MACH 2.999

PARAMETRIC VALUES
-4.000
.000
.000

ALPHAT
RLODFR
RLOFLR

.500
1.000
1.500



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

==

AVES 87-707 1A9 02A + S3 + 9 ORBITER FUSELAGE (RBNB04)

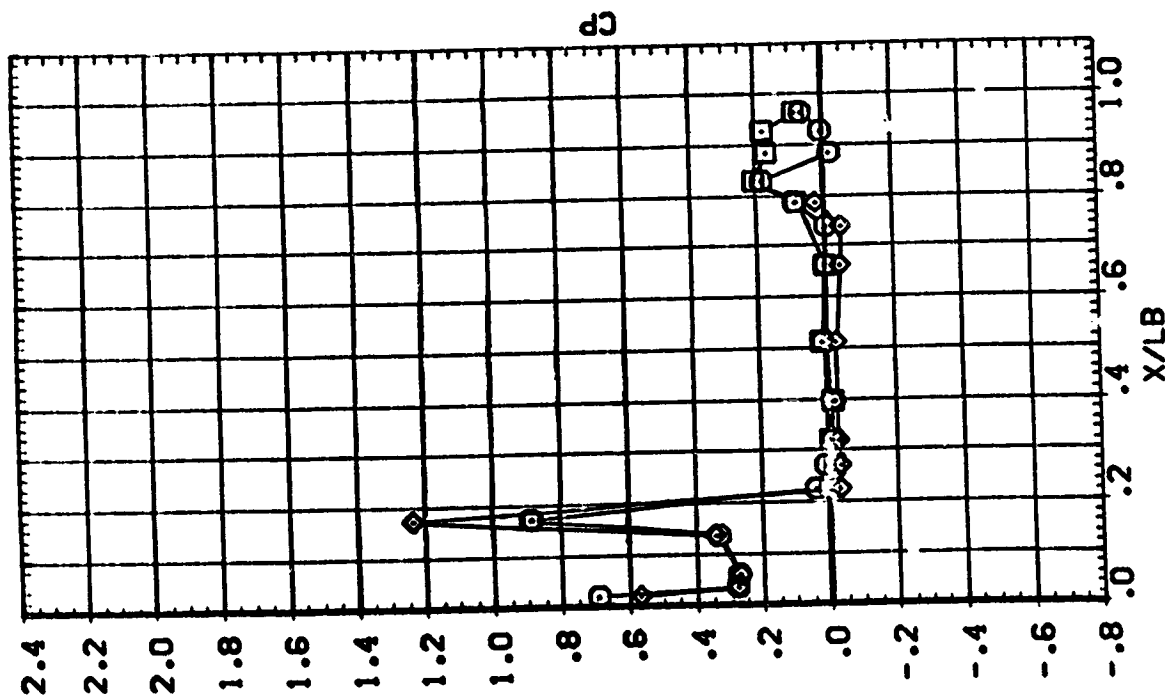
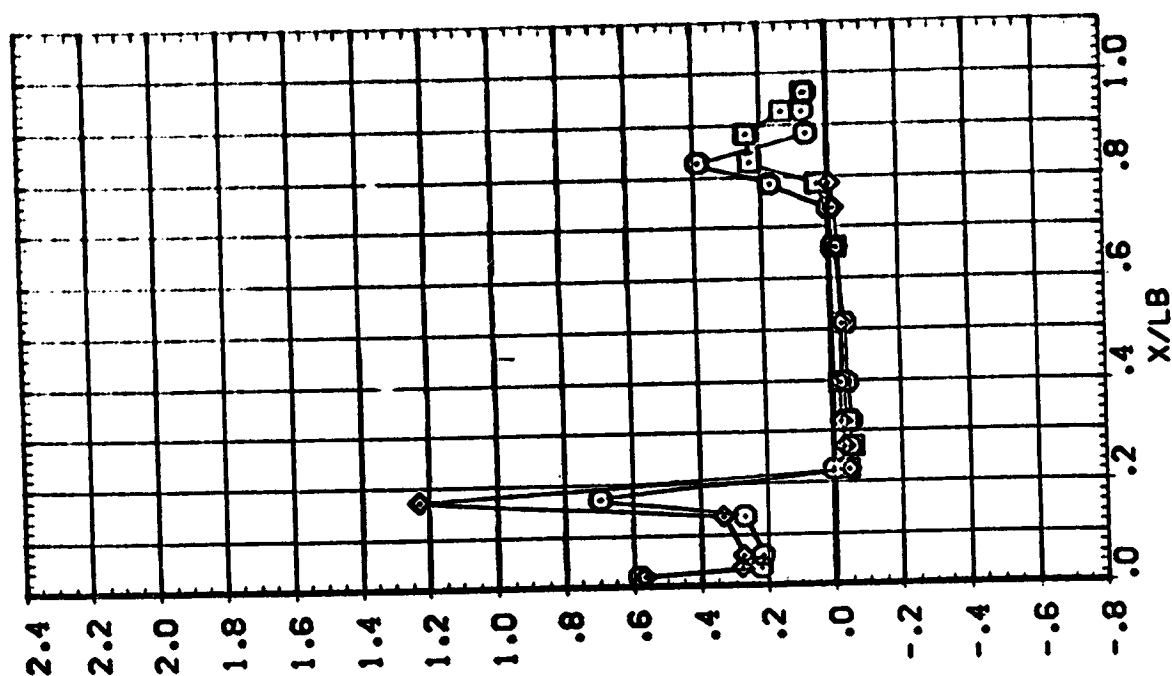
SYSC-
OLIO

PA: :50.000
:65.000
:80.000

BETAT -4.260
2.210

MACH 2.999

PARAMETRIC VALUES
ALPHAT -4.000
RJOER .000
RJOFLR .000
OPBINC .500
ELEVEN .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 :A9 C2A + S3 + T9 ORBITER FUSELAGE (RBNB04)

S+VSC
O
D
A

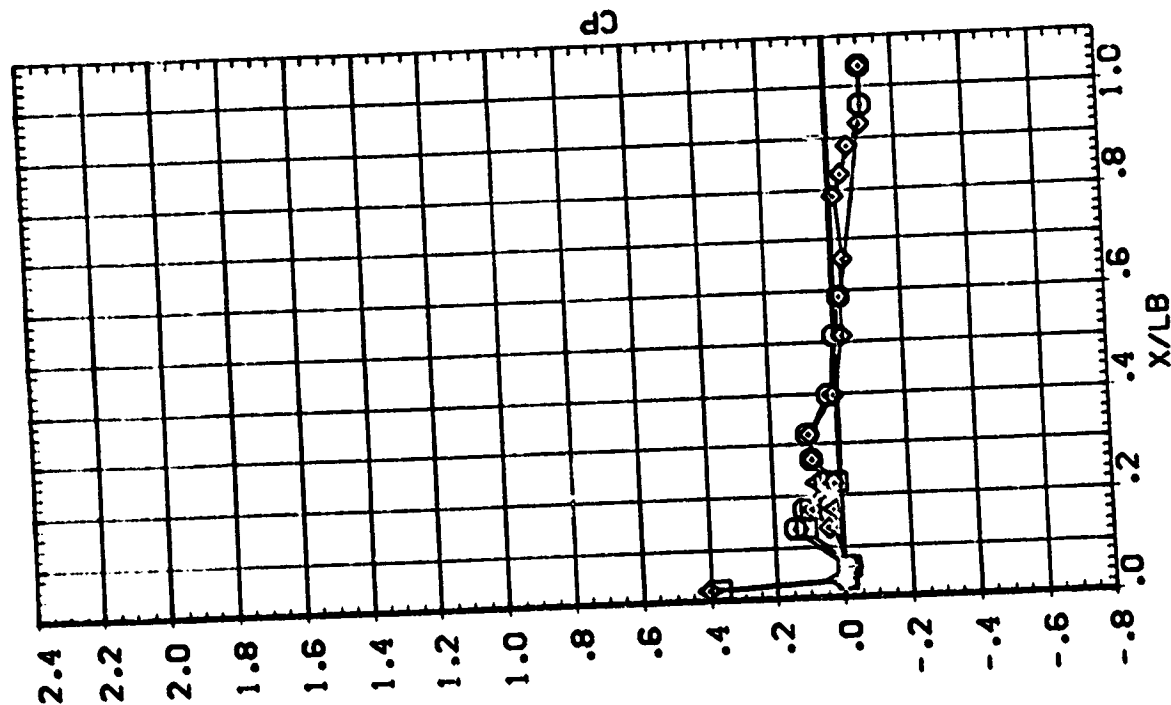
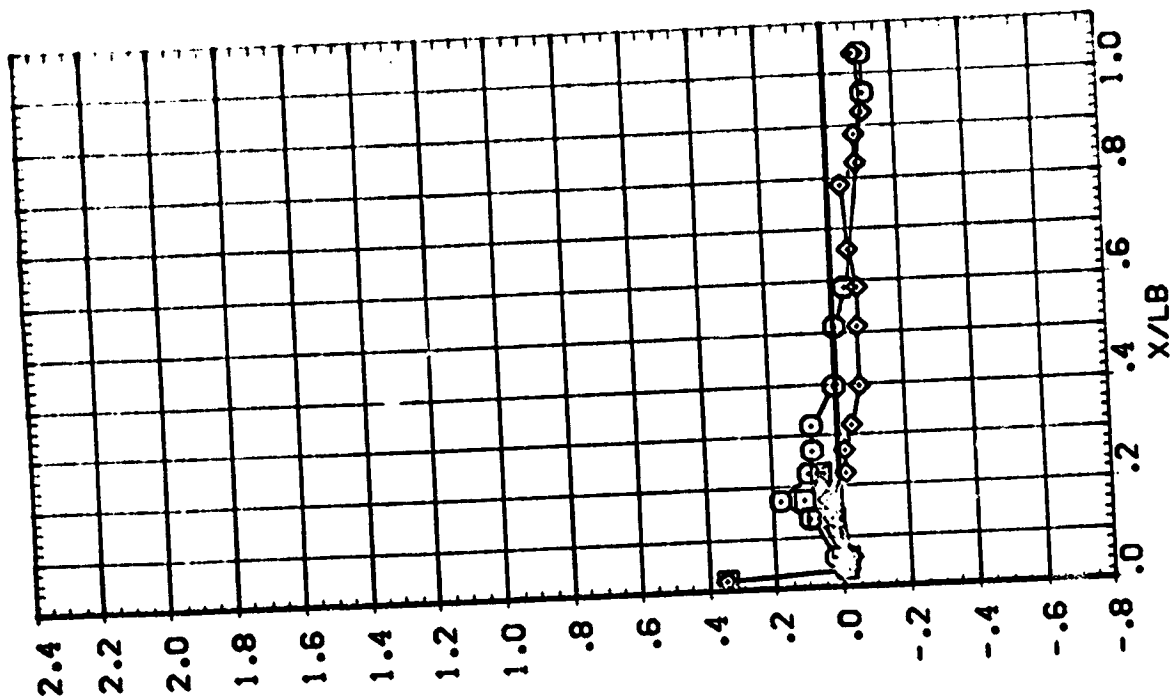
DA: .000
70.000
40.000
55.000

BETAT 4.380
8.710

MACH 2.999

PARAMETRIC VALUES
ALPHA: -4.000
RUDER .000
RFLR .000

ORBIT: .500
ELEV: .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 :A9 C2A + S3 + 19 ORBITER FUSELAGE (RBN804)

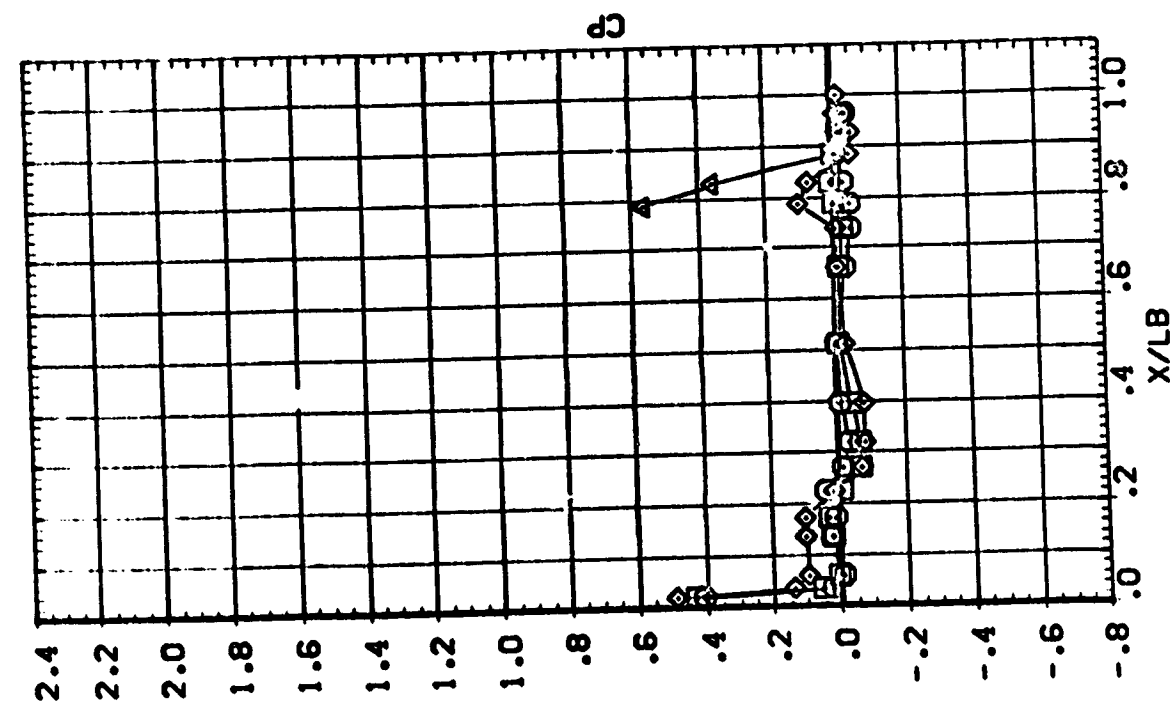
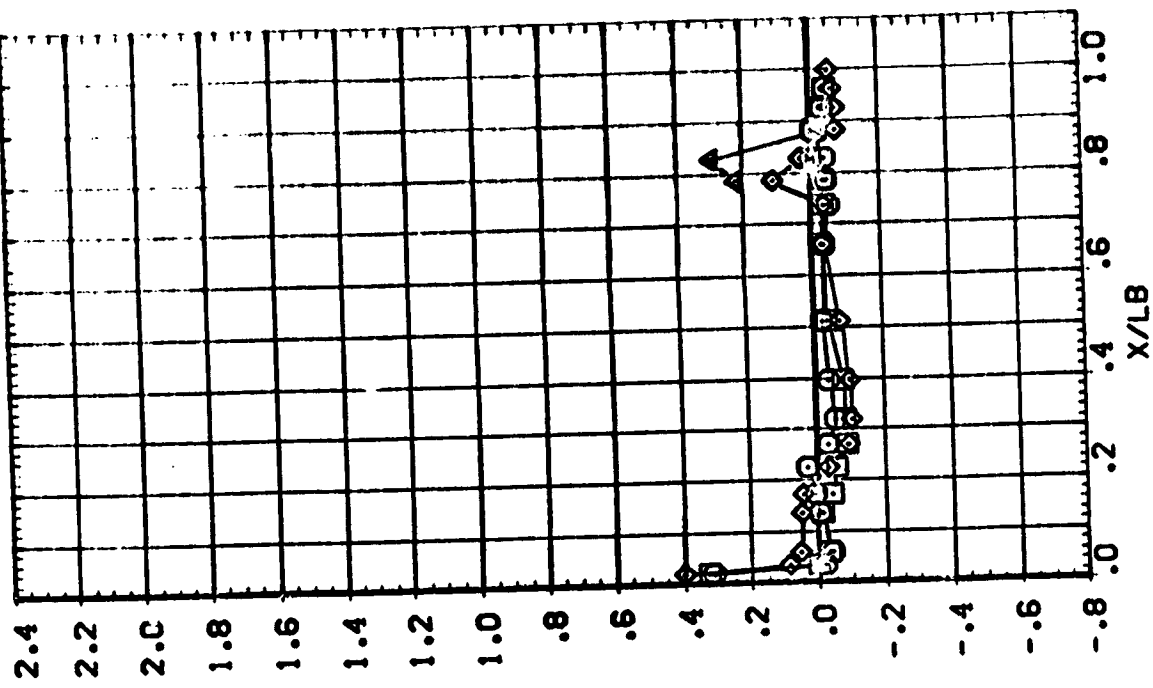
S-100
70.000
90.000
120.000
150.000

BEAT 4.380
8.770

MACH 2.999

PARAMETER VALUES
ALPHAT -4.000
RUDDER .000
RJDFLR .000

.500
1.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 1A9 C2A - S3 - 19 ORBITER FUSELAGE (R8N304)

SYMBOL
 ()
 ()
 ()

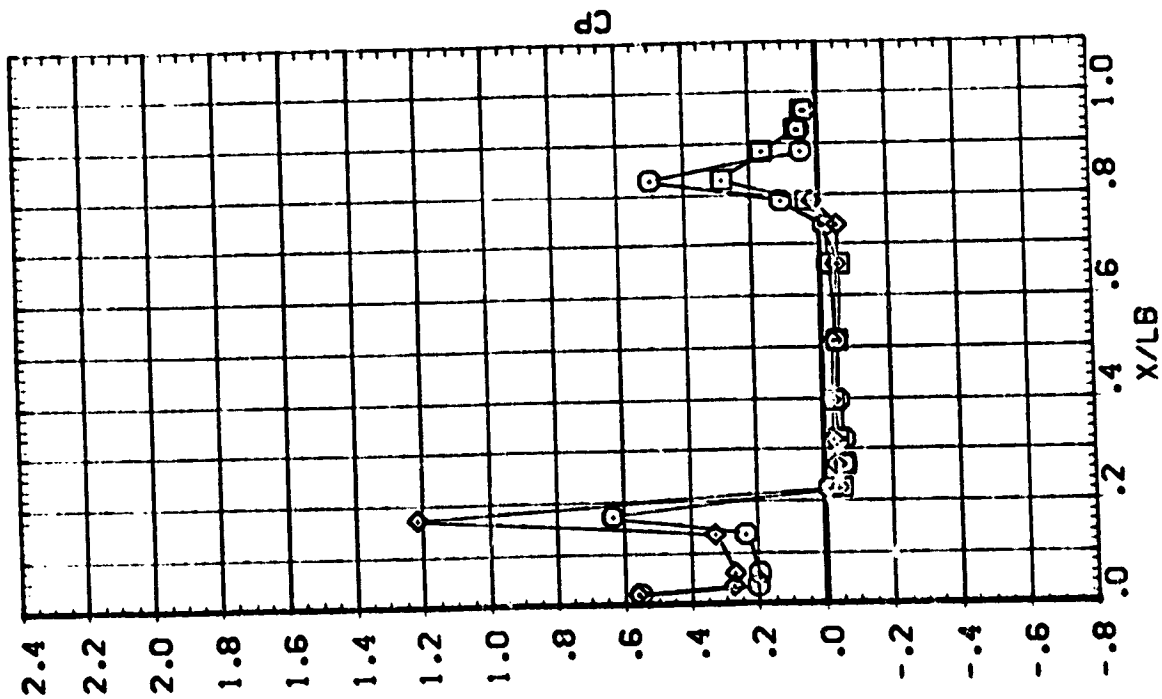
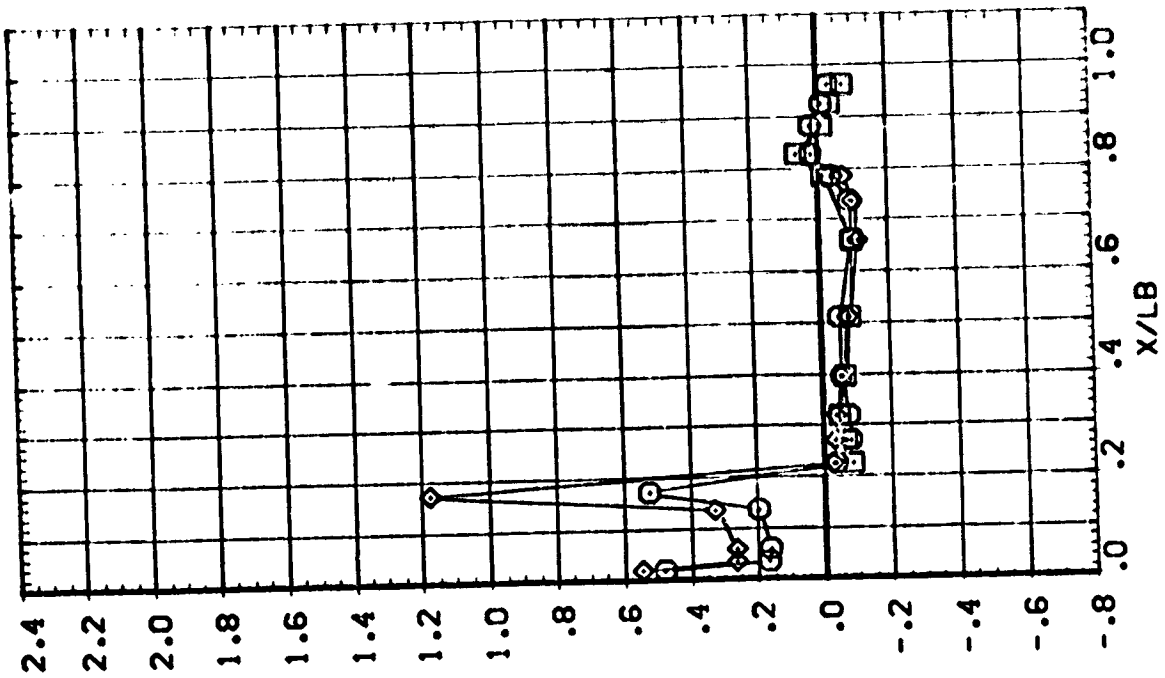
REF: 150.000
 165.000
 180.000

BETAT 4.380
 8.710

MACH 2.999

ALPHAT
 RUDER
 RUFLR

PARAMETRIC VALUES
 -4.000
 .000
 .000
 .000



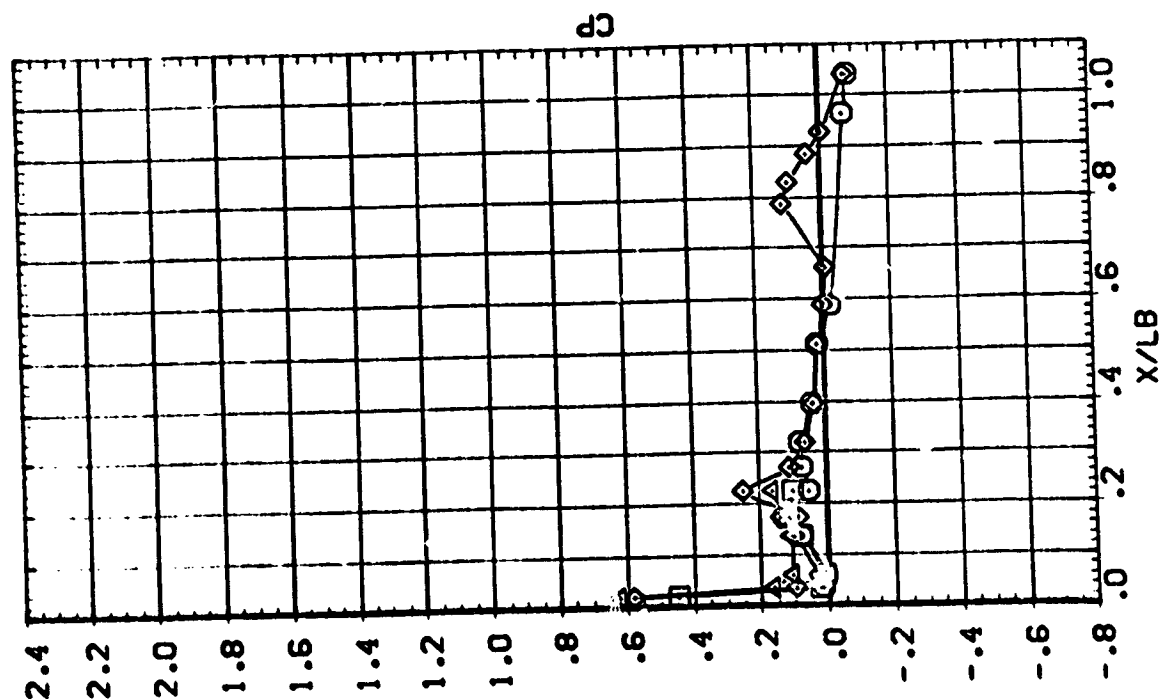
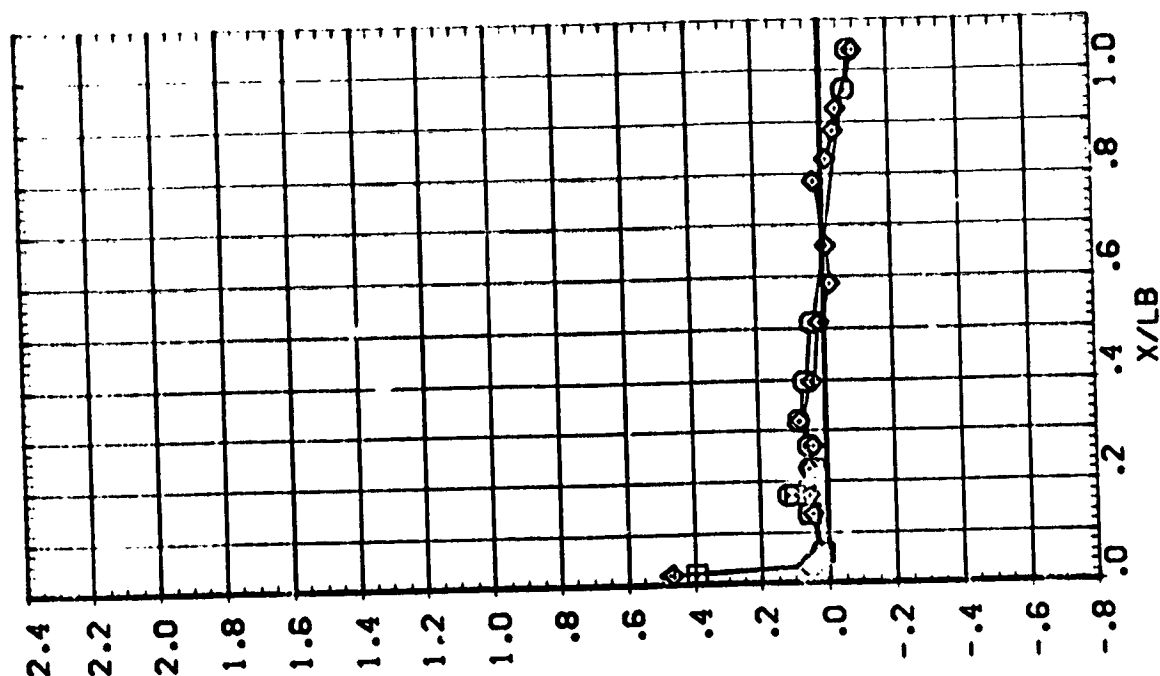
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 :A9 C2A + S3 + T9 ORBITER FUSELAGE (RBN304)

PARAMETRIC VALUES
 ALPHAT -4.000 DBINC .500
 RUDDER .000 ELEVON .000
 RUDDLR .000

PH: .000 VACH 3.502
 BEAT -4.340 2.260

SYNDC
 20.000
 40.000
 55.000



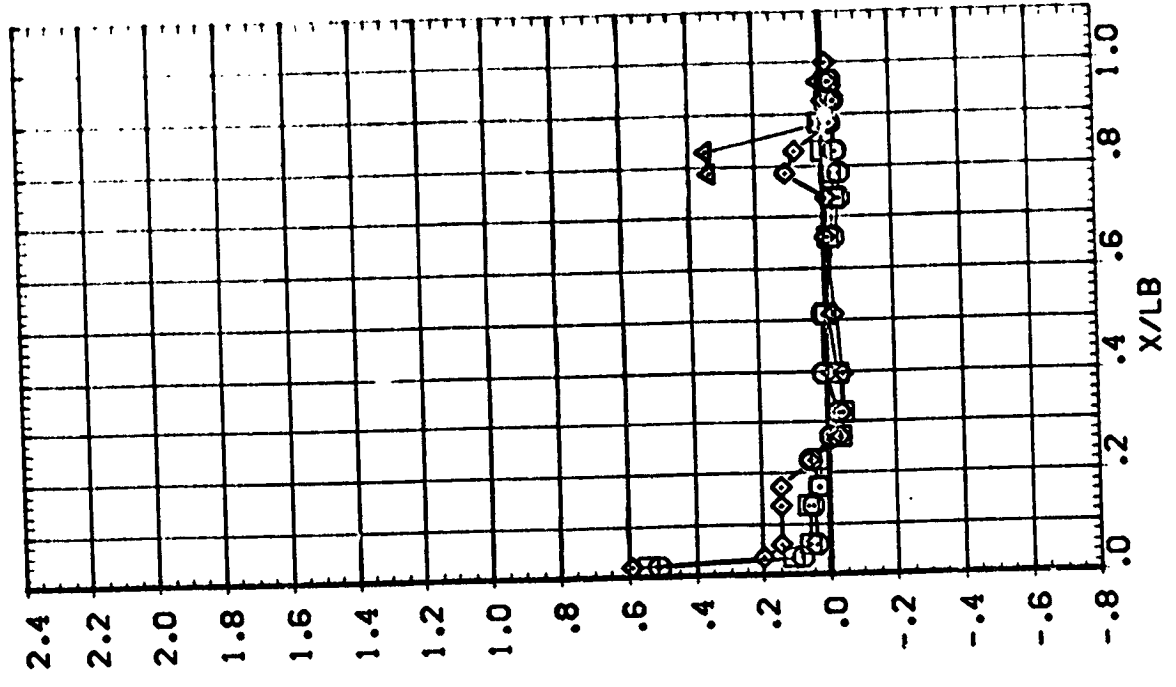
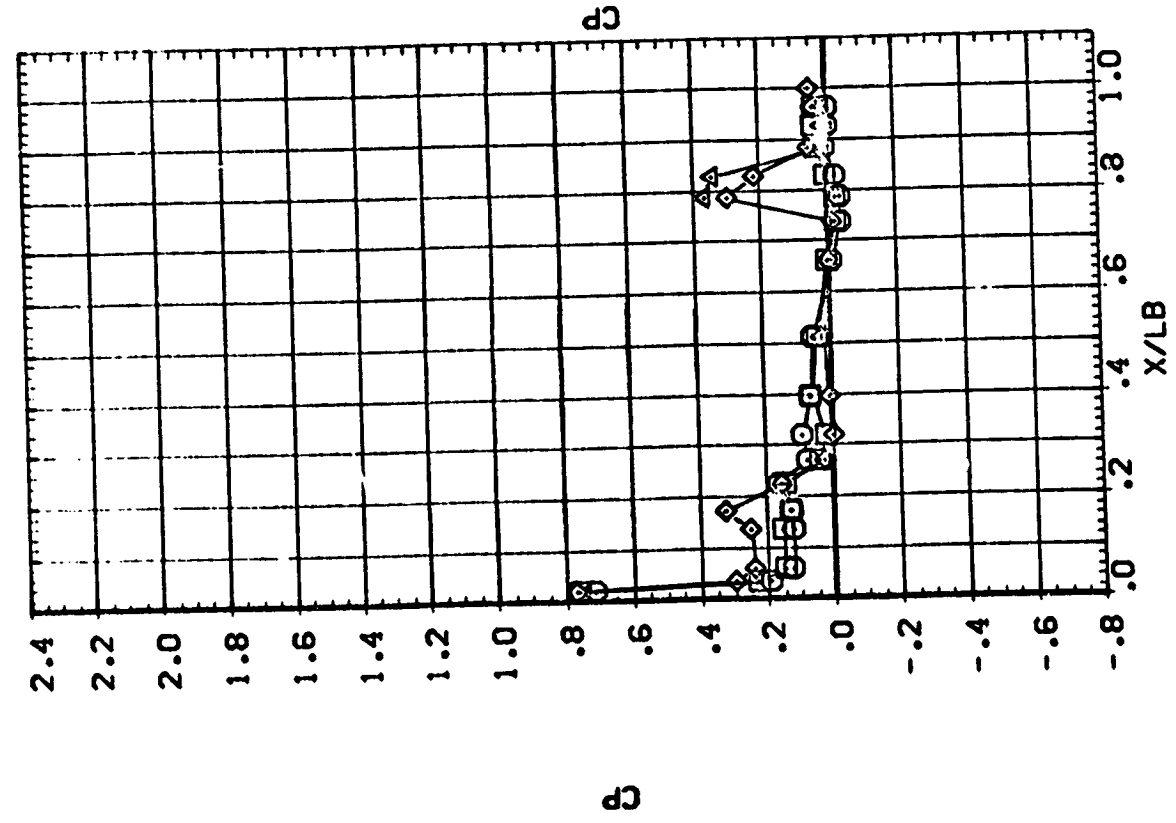
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

S-VEC
 70.000
 90.000
 170.000
 135.000

BETA°
 -4.340
 2.760

MACH
 3.502

PARAMETRIC VALUES
 ALPHA
 RUDER
 RUDELR
 -4.000
 .000
 .000
 .500
 .000



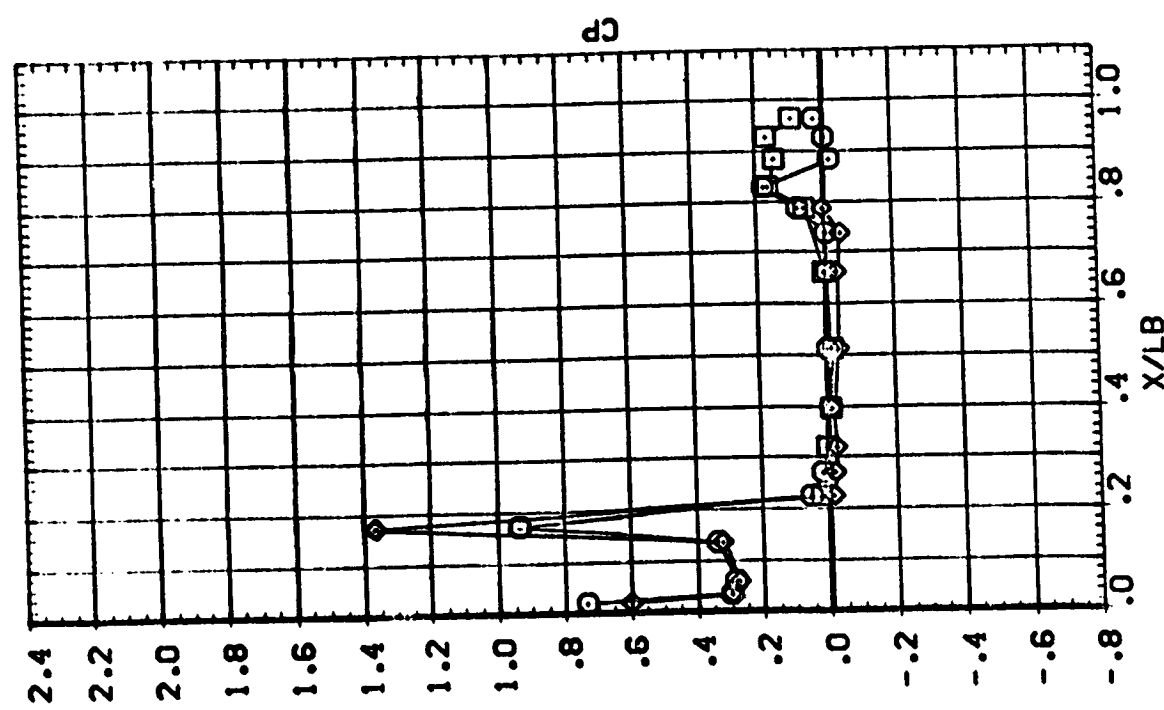
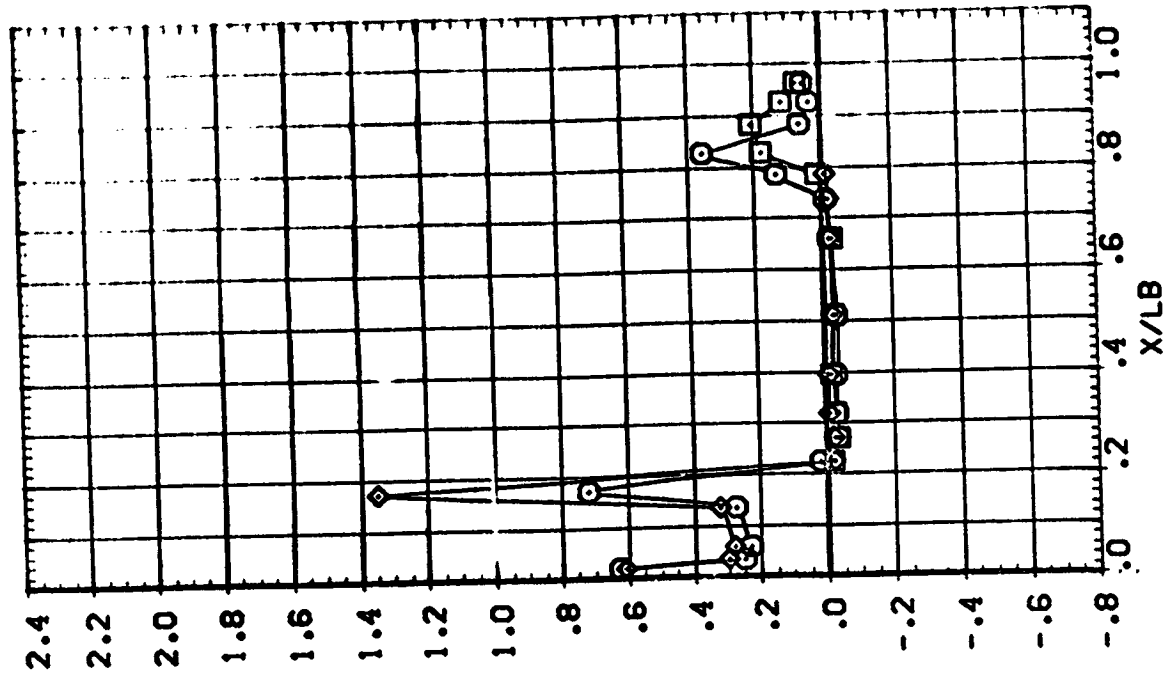
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 :A9 C2A + S3 + T9 ORBITER FUSELAGE (RBNB04)

SWEEP
: 1
: 2
: 3
: 4

PA: BETAT MACH
:50.000 -4.340 3.502
:65.000 2.760
:80.000

PARAMETRIC VALUES
ALPHAT -4.000 SPB:VC .500
RUDDER .000 ELEVON .000
RJOFLR .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-7C7 :A9 C2A - S3 + T9 ORBITER FUSELAGE (RBN804)

SYMBOL
 ○
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 ◇
 △

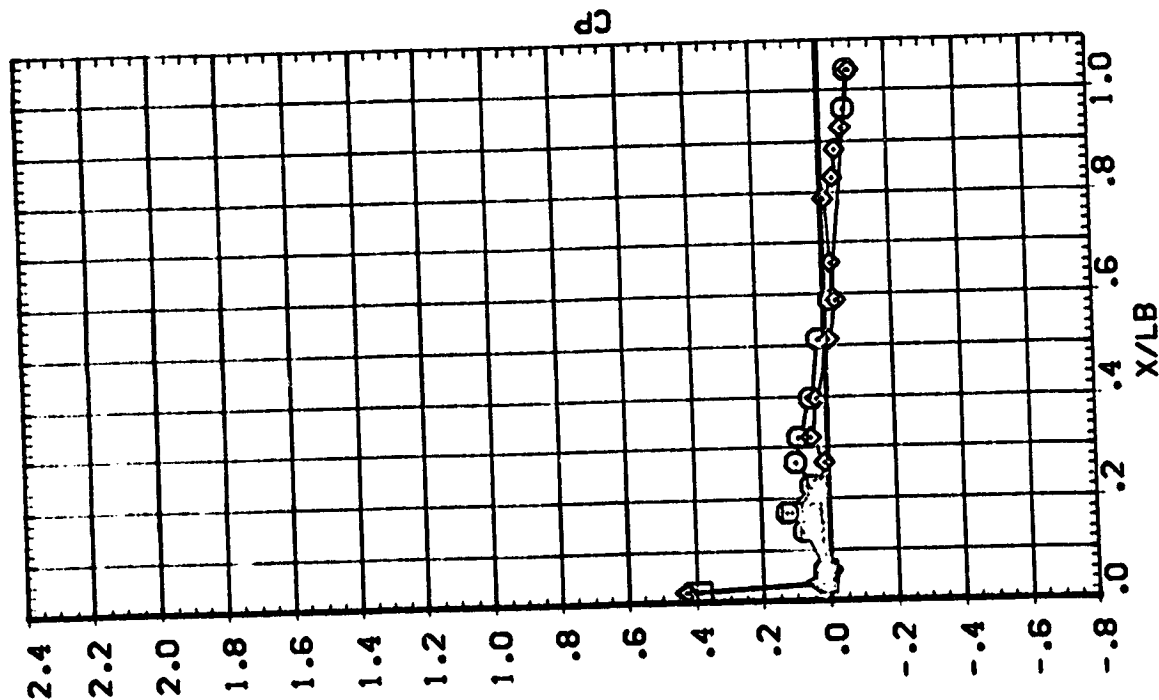
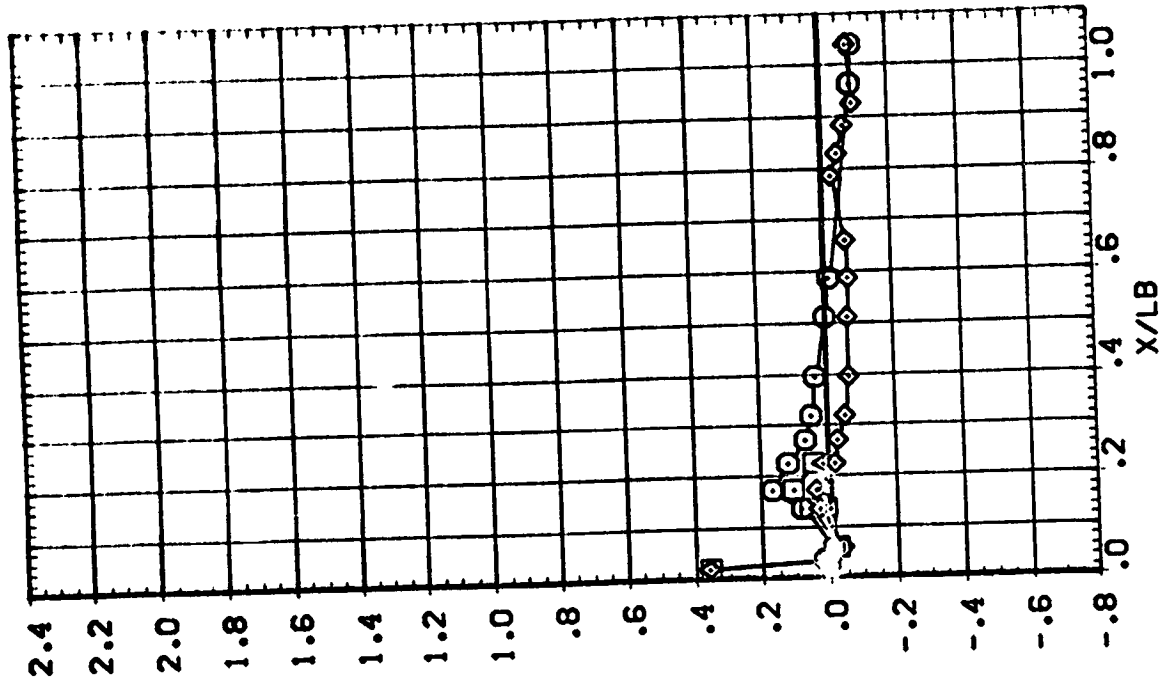
PHI .000
 20.000
 40.000
 55.000

BETA 4.460
 8.870

MACH 3.502

PARAMETRIC VALUES
 ALPHAT -4.000
 RUDER .000
 RUDFLR .000

ORBIT INC .500
 ELEVON .000



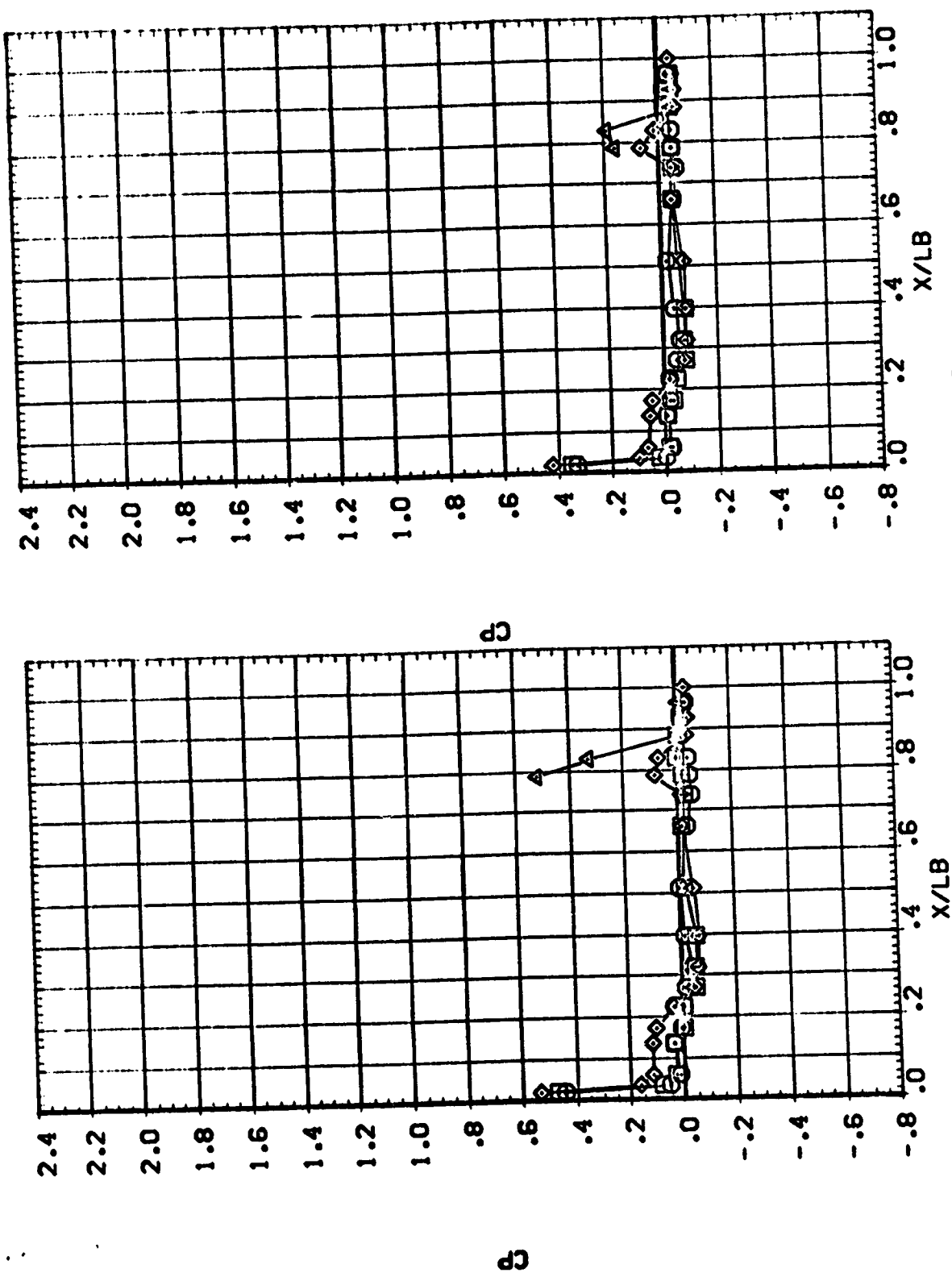
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 1A9 C2A + S3 + 19 ORBITER FUSELAGE (RBNB04)

SYMBOL
 70.000
 90.000
 120.000
 135.000

BETAT MACH
 4.460 3.502
 9.670

PARAMETRIC VALUES
 ALPHAT -4.000
 RLODR .000
 RLOFLR .000
 ORBITING .000
 ELEVAT .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-7C7 1A9 C2A + S3 + 19 ORBITER FUSELAGE (RBNB04)

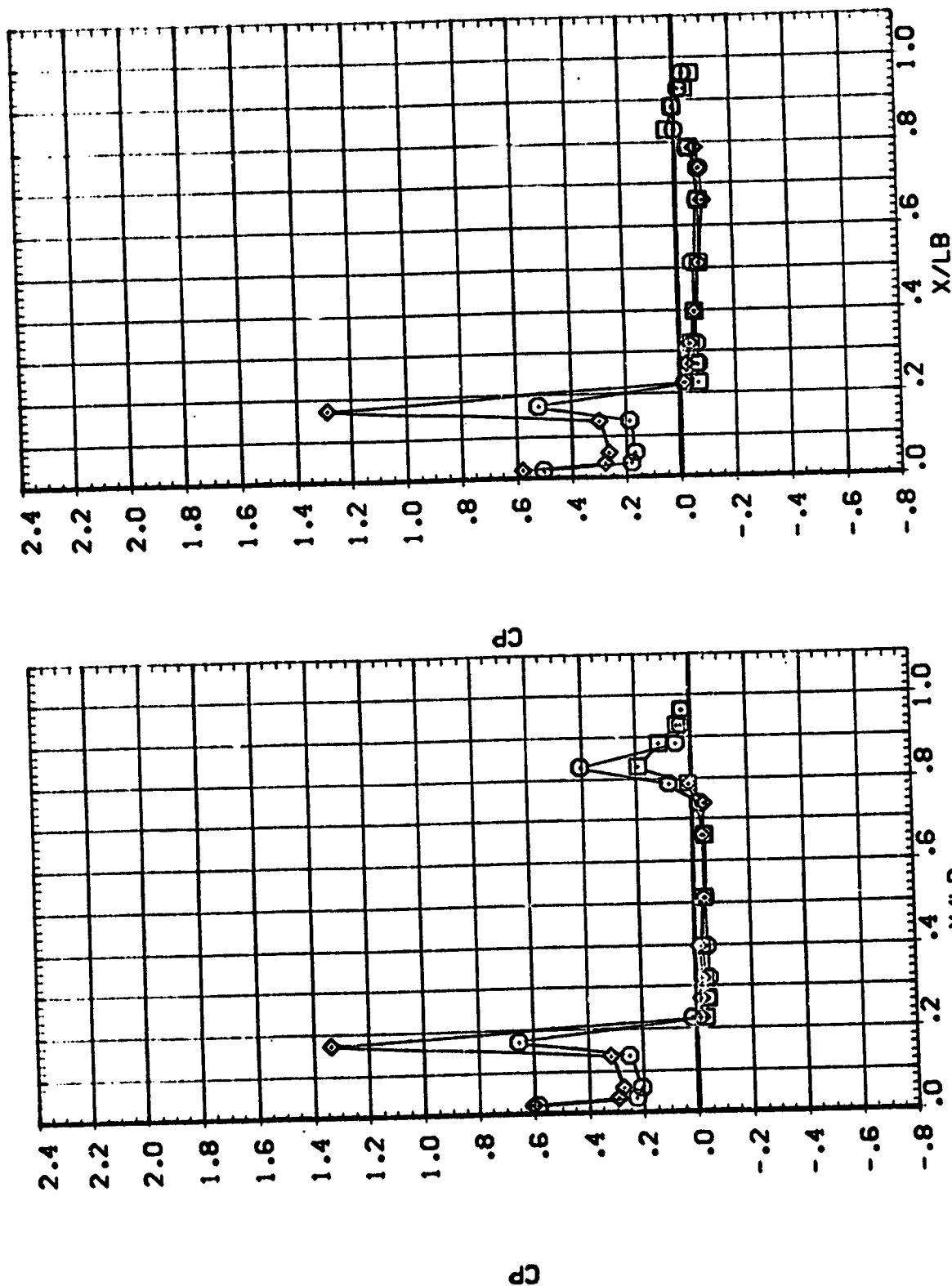
S-REF
 :50.000
 :65.000
 :80.000

BETA°
 4.160
 8.870

MACH
 3.502

ALPHAT
 RUDDER
 RUOFLR

PARAMETRIC VALUES
 -4.000
 .000
 .000
 .000
 .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-7C7 :A9 C2A - S3 + 19 ORBITER FUSELAGE (RBNB06)

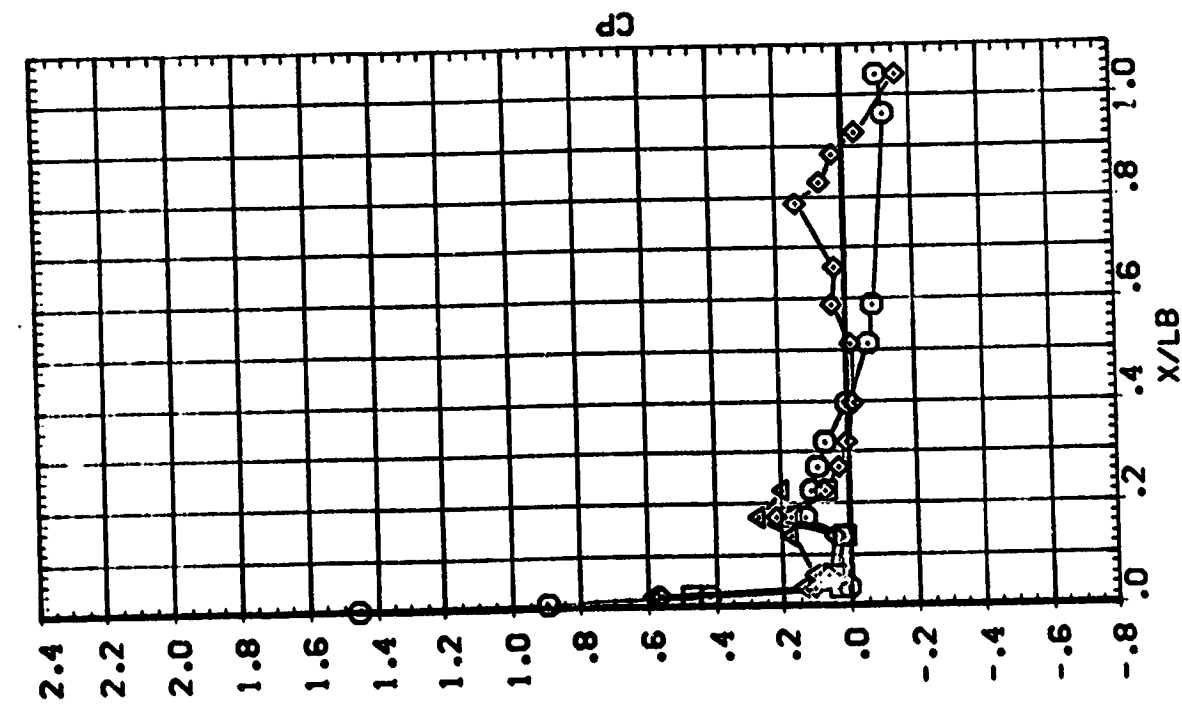
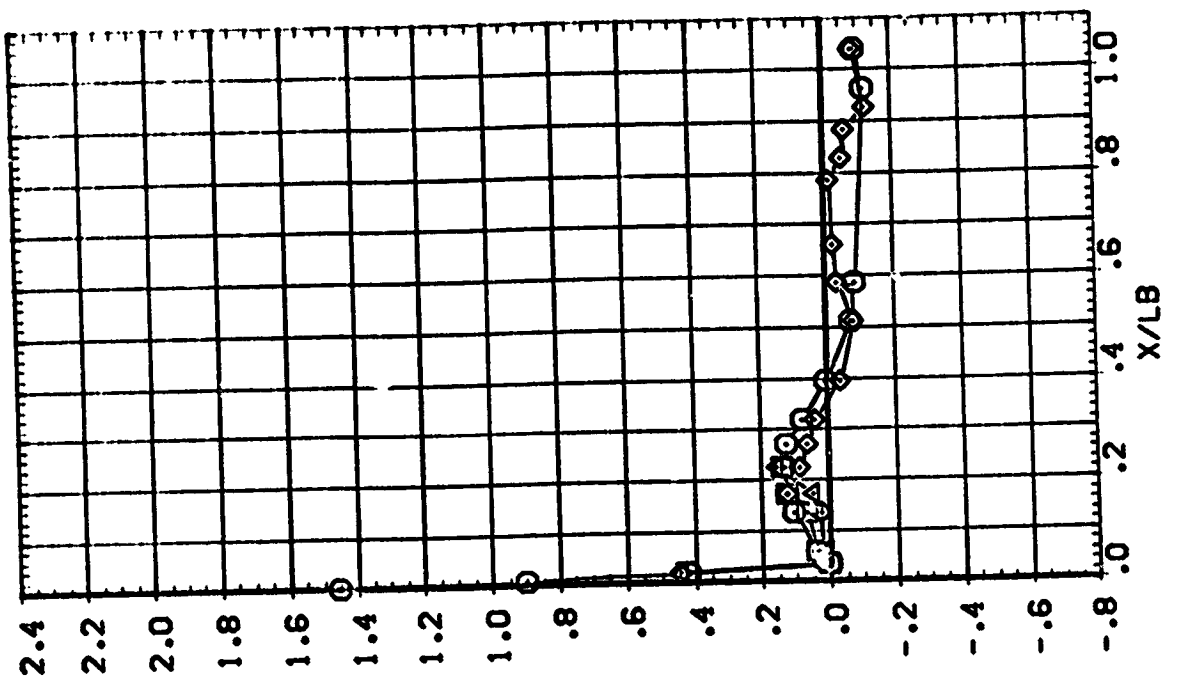
PARAMETRIC VALUES
 .000 .000 .000
 .000 .000 .000
 .000 .000 .000

ALPHAT
 RUDDER
 RZFLR

BETAT
 -4.190
 2.170

PACH
 2.498

PM1
 .000
 20.000
 42.000
 55.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 1A9 02A + S3 + 19 ORBITER FUSELAGE (RBNB06)

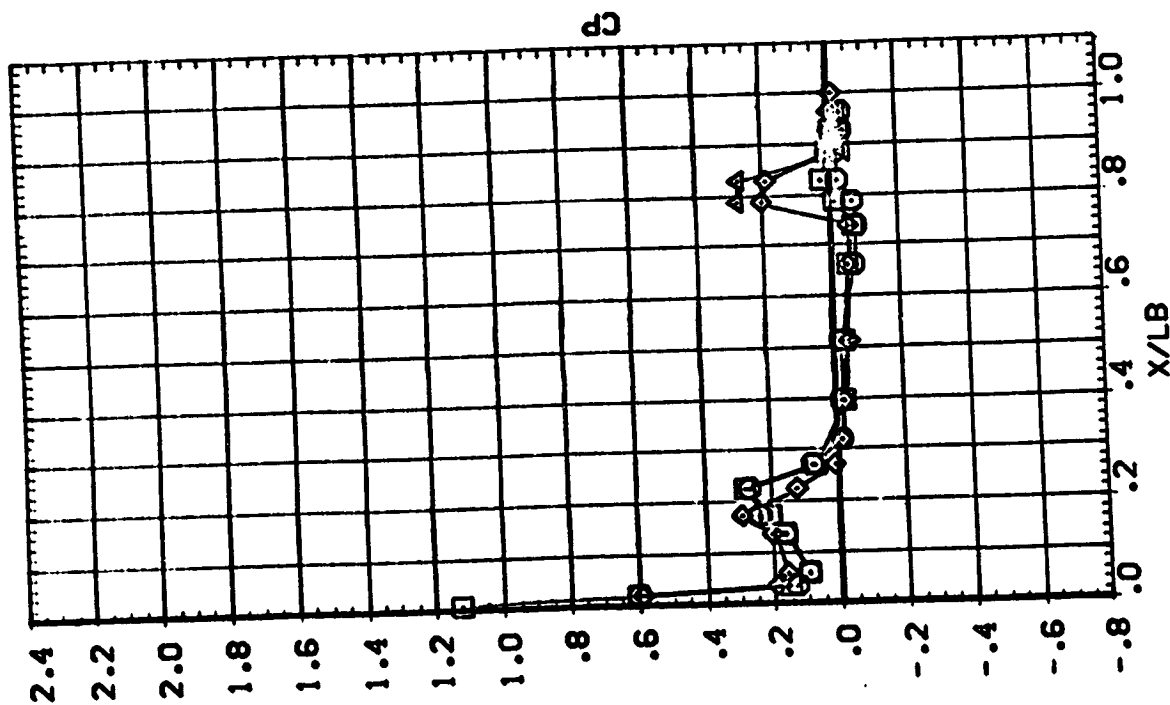
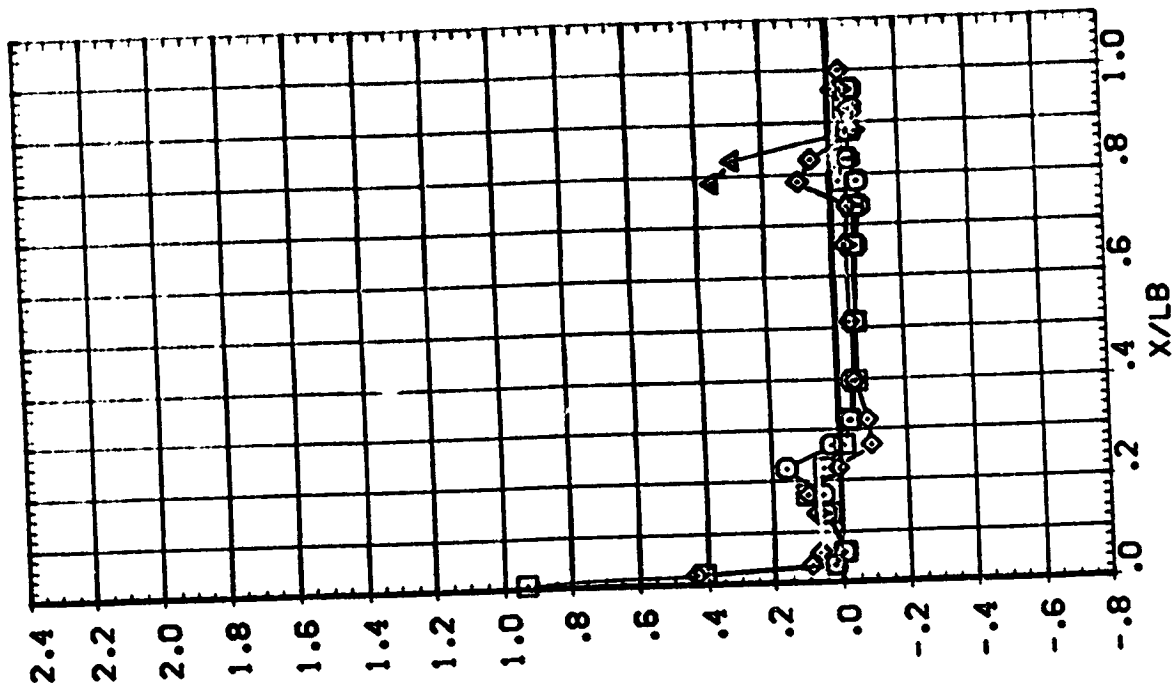
SYMBOL
 ○
 □
 △

PM: 70.000
 90.000
 120.000
 135.000

BETAT -4.190
 2.170

MACH 2.498

PARAMETRIC VALUES
 ALPHAT .000 ORBINC .000
 RUDDER .000 ELEVON .000
 RUFLER .000



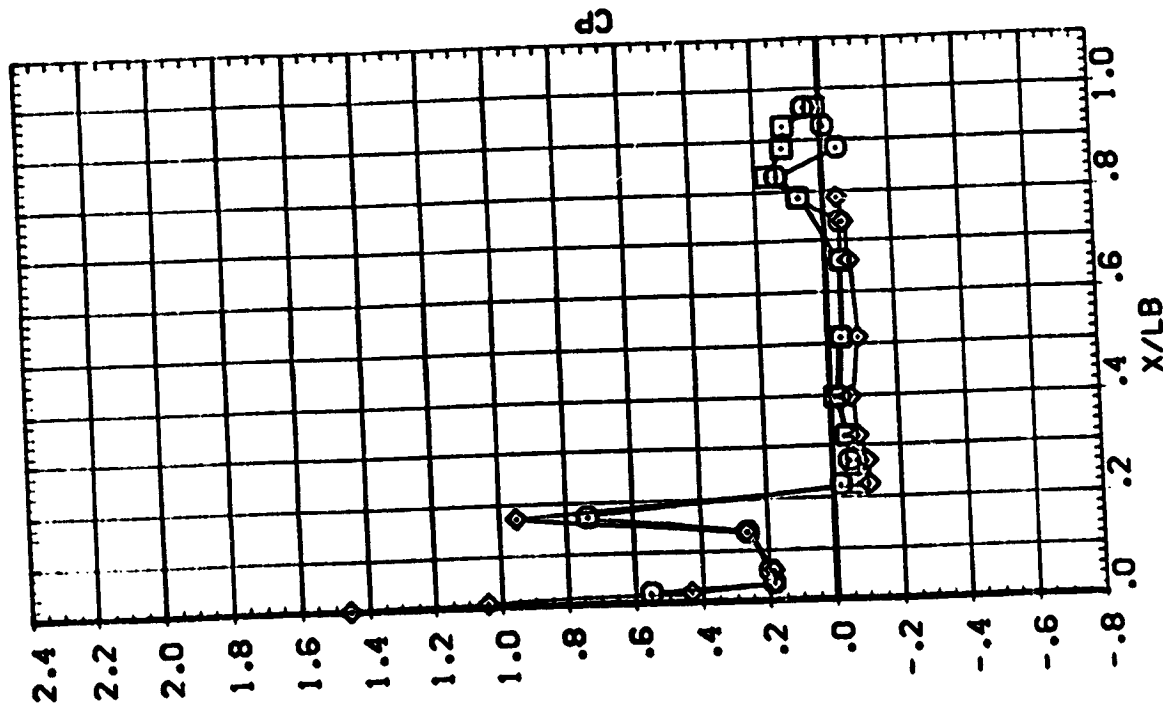
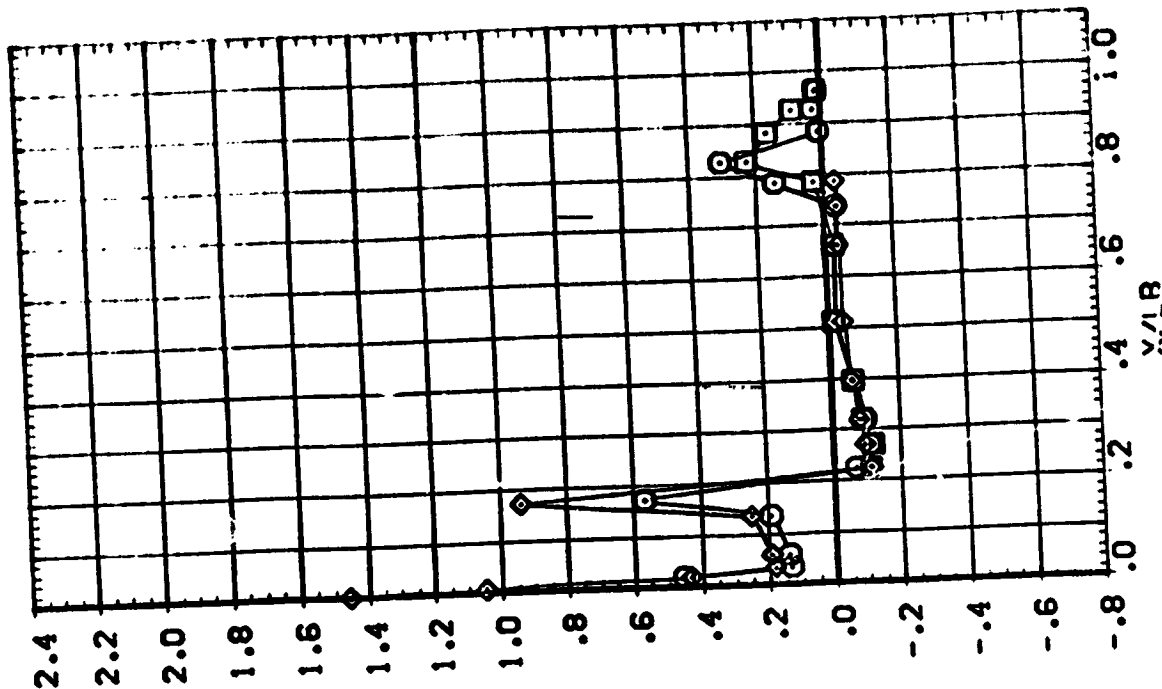
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

III

AVES 87-707 1A9 02A + S3 + 19 ORBITER FUSELAGE (RBNB06)

PARAMETRIC VALUES
 ALPHAT .000
 RODER .000
 RODFLR .000
 .500
 .000

SYMBOL
 150.000
 165.000
 180.000
 BEAT MACH
 -4.190 2.498
 2.170



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 :A9 C2A * S3 * '9 ORBITER FUSELAGE (RBNB06)

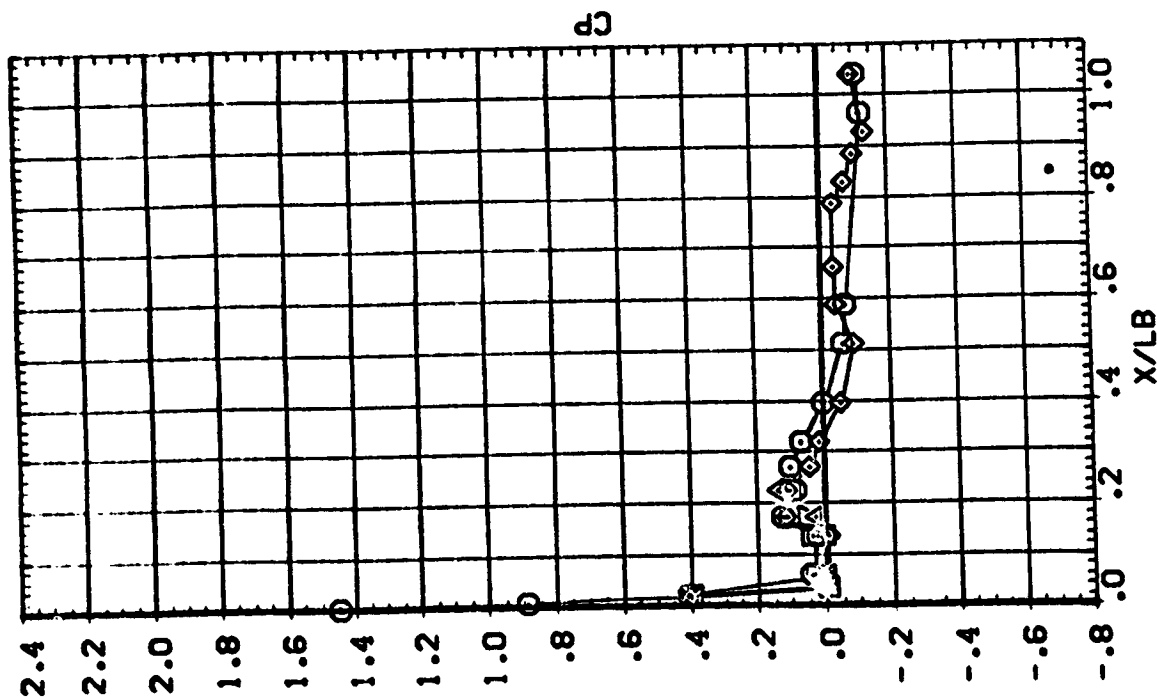
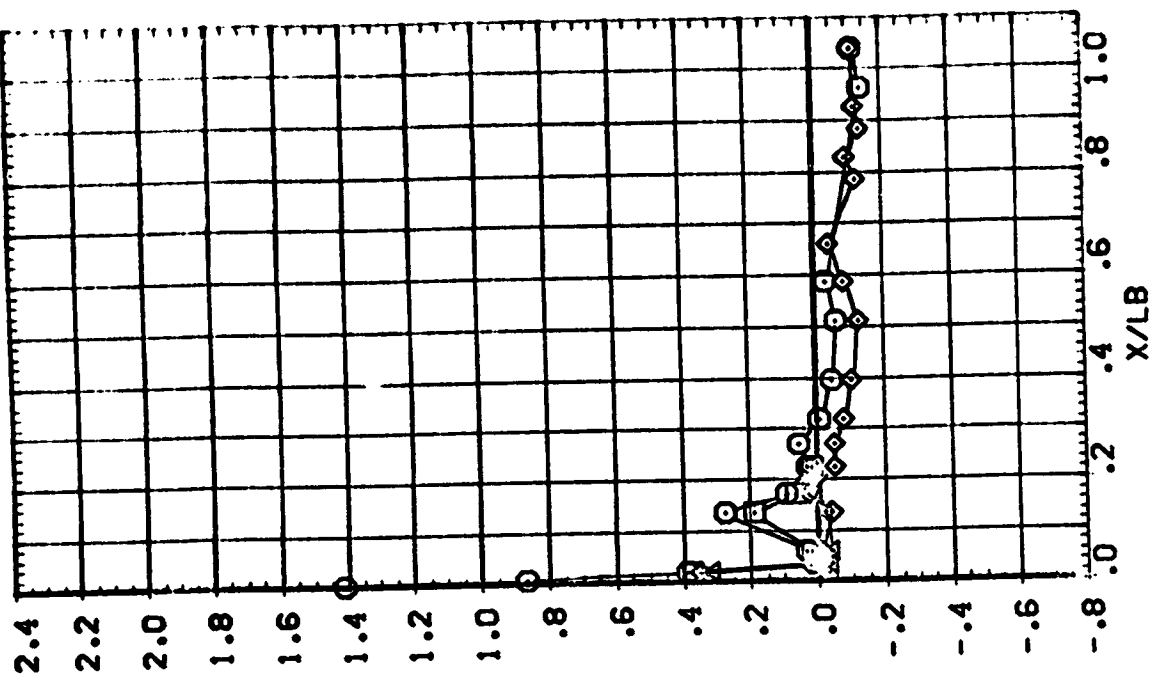
SYMBOL
 O
 I
 Δ

REYNOLDS NUMBER
 10,000
 20,000
 40,000
 55,000

ANGLE OF ATTACK
 4.29C
 8.54C

MACH
 7.498

PARAMETRIC VALUES
 ALPHAAT .000
 RUDDER .000
 RUDFLR .000
 ORBITNC .500
 ELEVON .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

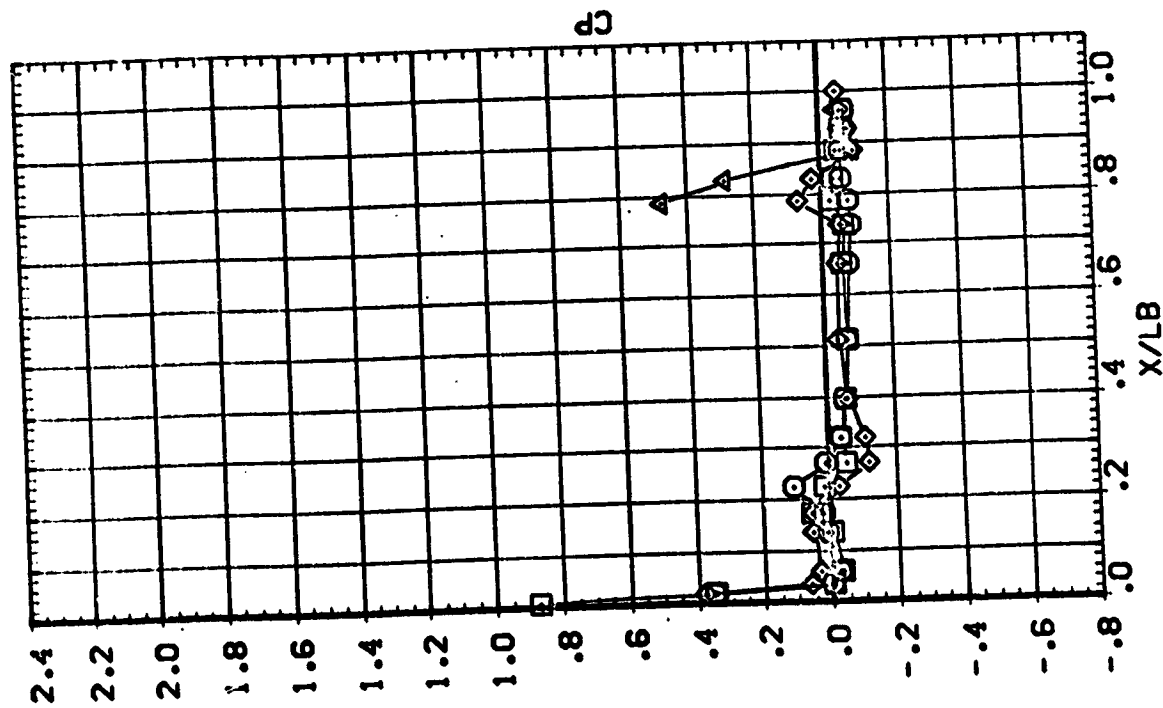
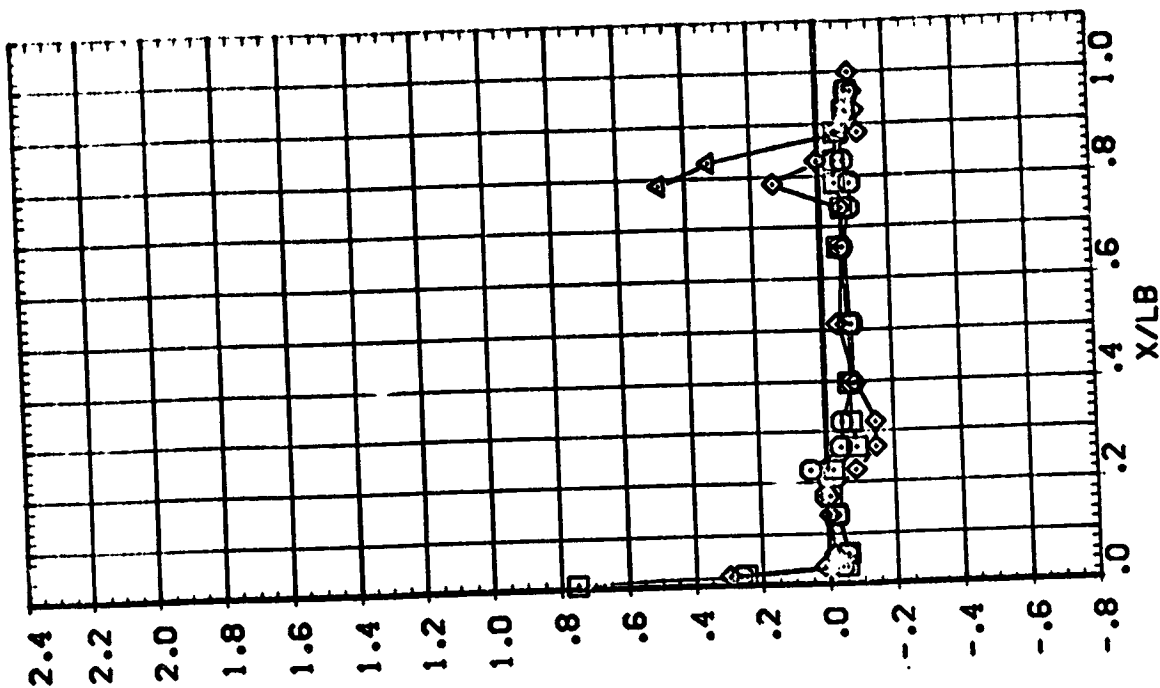
AVES 87-707 :A9 C2A + S3 + T9 ORBITER FUSELAGE (RBNB06)

S²SC
 70.000
 90.000
 120.000
 135.000

PH-1
 BETAT
 4.290
 8.540

MACH
 2.498

PARAMETRIC VALUES
 ALPHAT
 RUDDER
 RUDDL
 .000
 .000
 .000
 .000
 .000
 .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 :A9 CPA + S3 + T9 ORBITER FUSELAGE (RBN306)

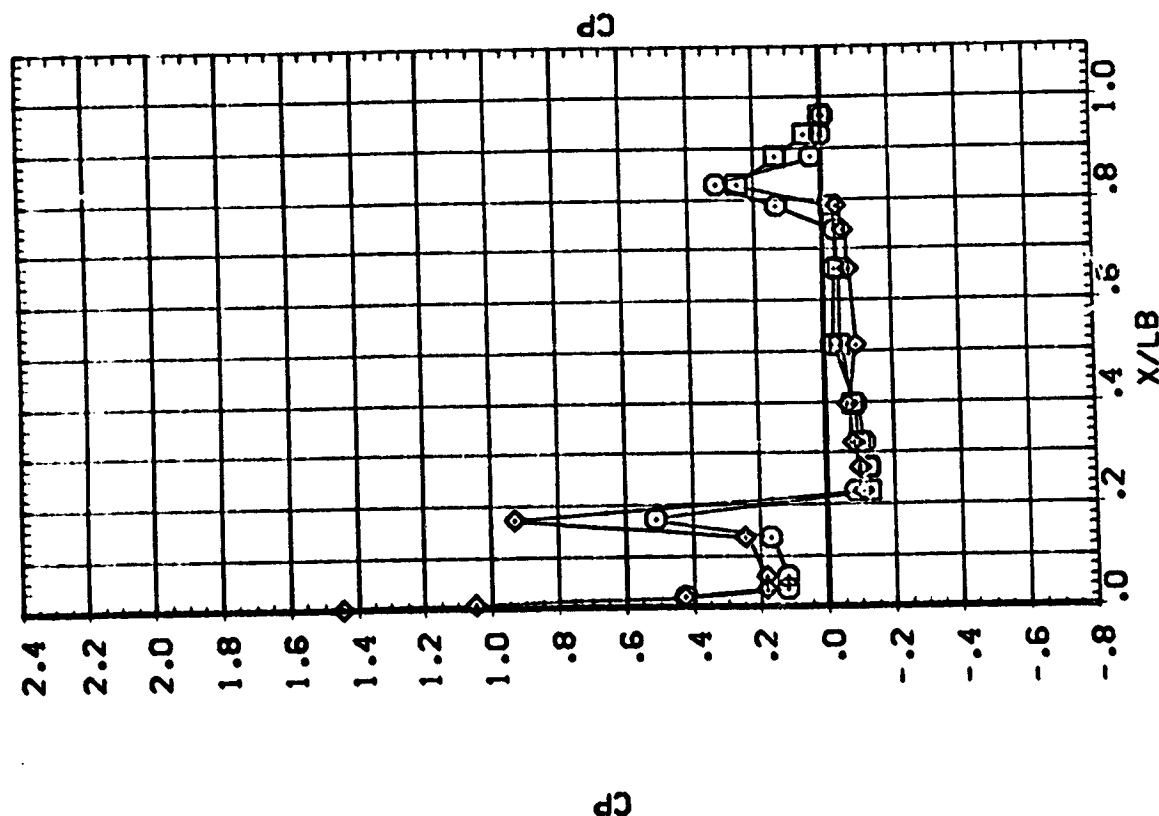
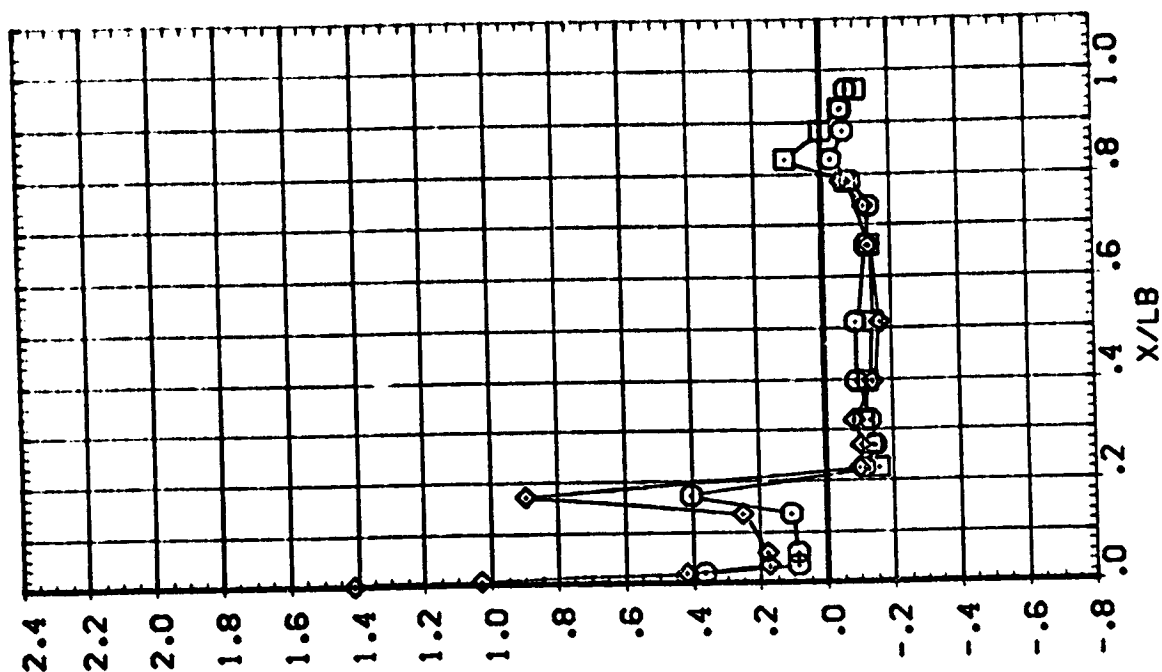
SYNCH
OUT
◇

PM: 150.000
:65.000
:80.000

BETAT 4.290
8.540

MACH 2.498

PARAMETRIC VALUES
ALPHA: .000
RUDER .000
RUDLR .000
ORBIT: .500
ELEVON .000



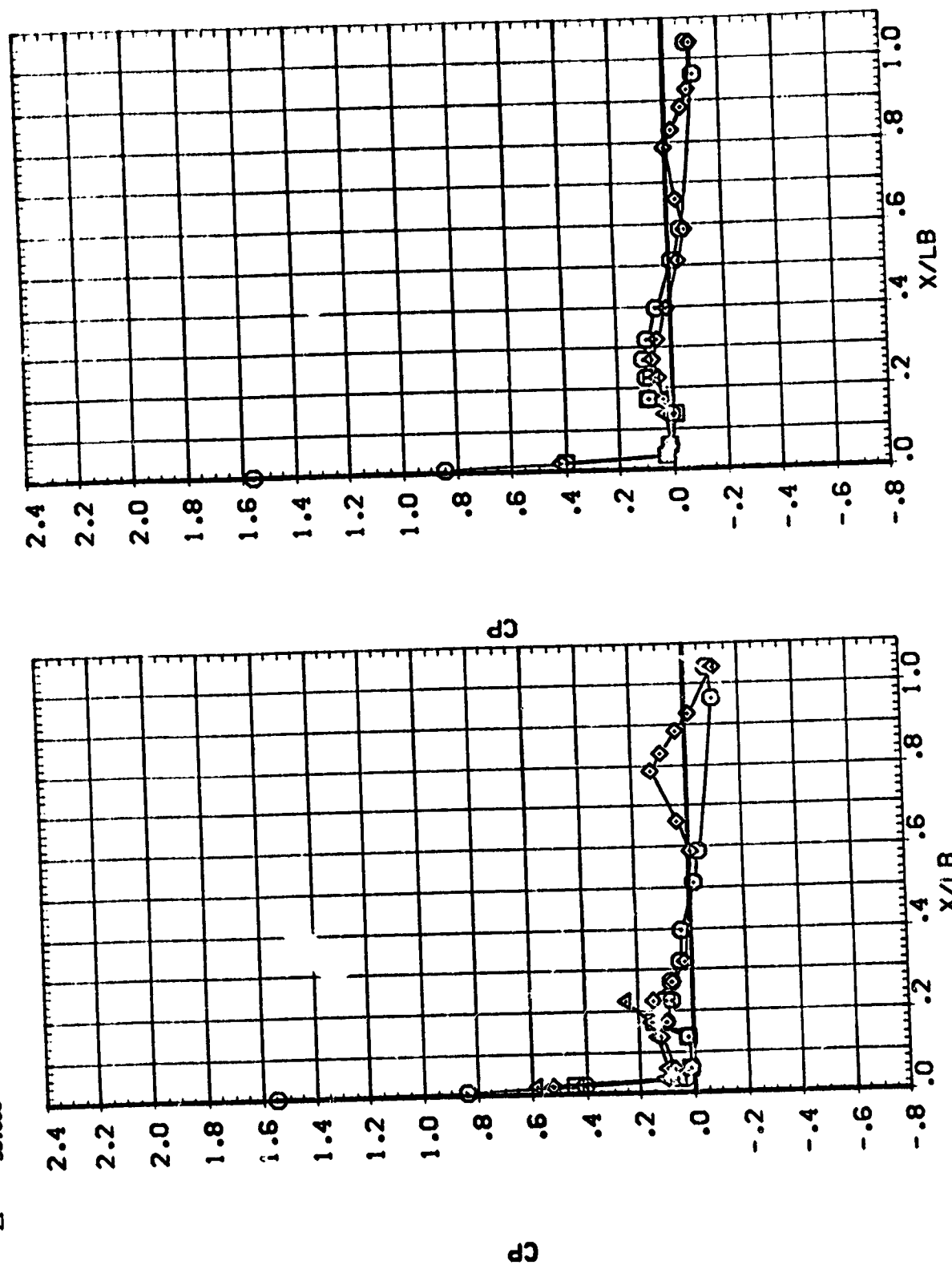
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

==

AVES 87-707 :A9 32A - S3 - 19 ORBITER FUSELAGE (R8N3C6)

PARAMETRIC VALUES
ALPHAT .000
RUDER .000
RUDFLR .000
ORBITINC .500
ELEVON .000

SWEC
0 10 Δ
0.000
20.000
40.000
55.000
BETAT -4.270
MACH 7.999
7.210



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-7C7 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBNB06)

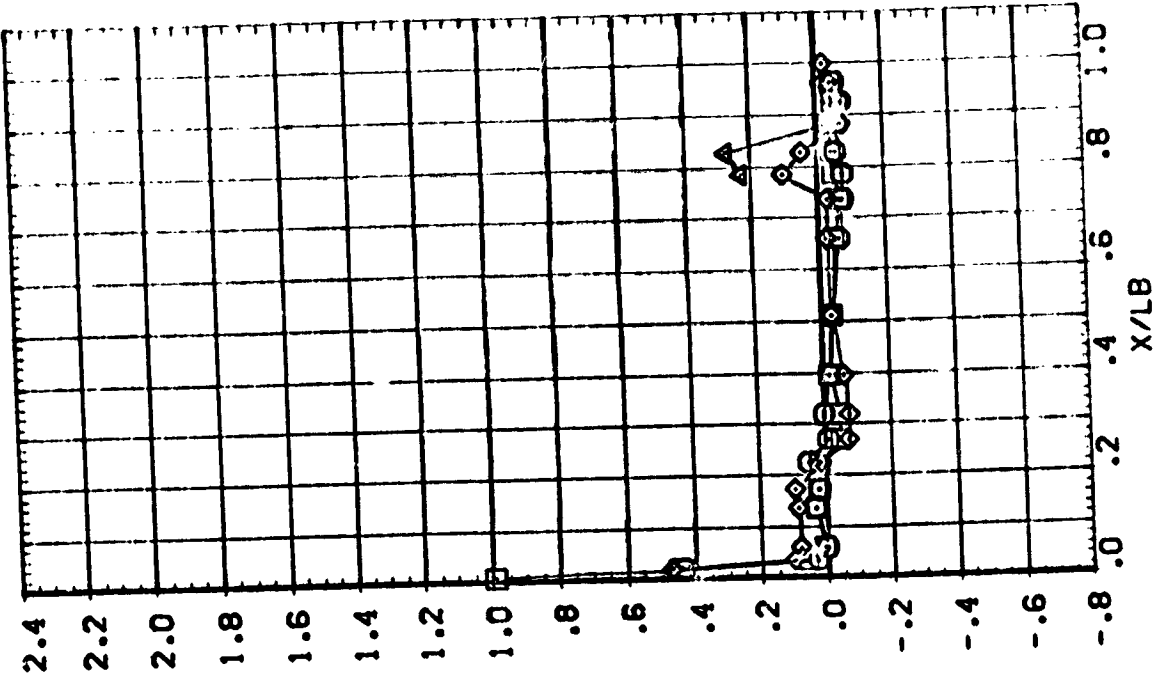
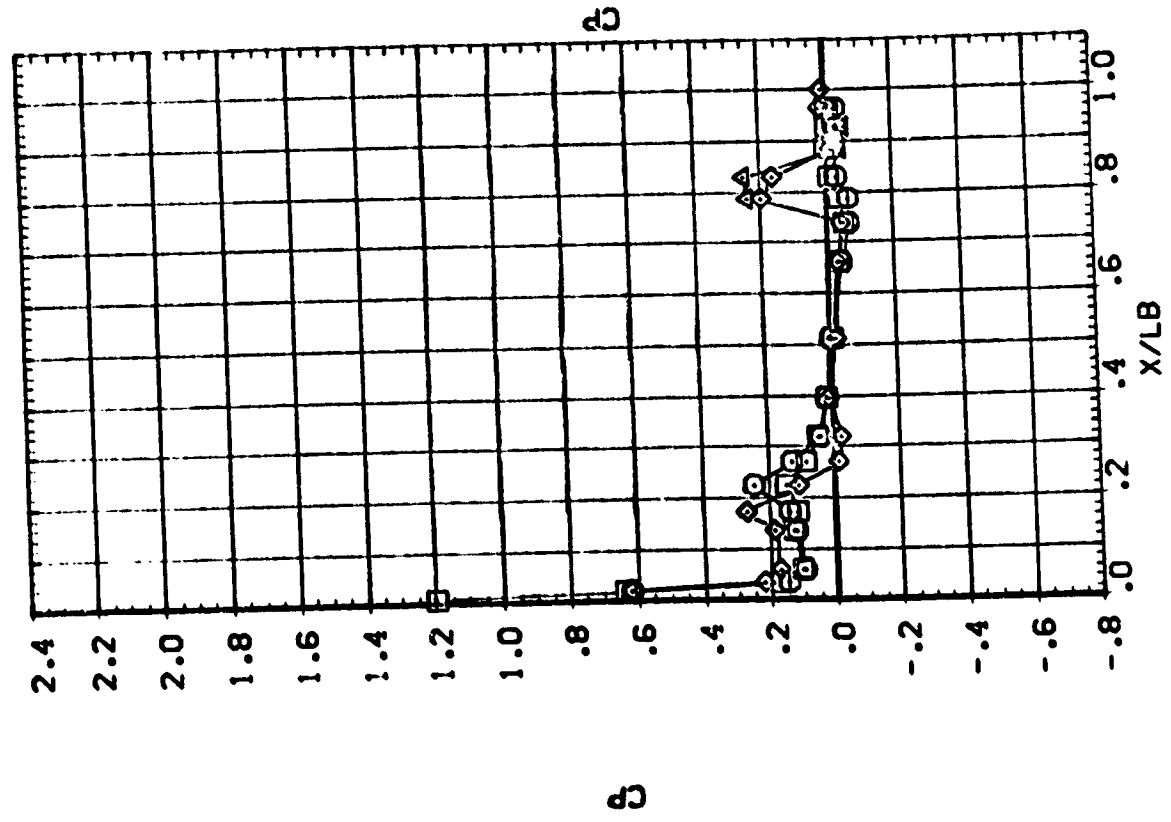
SYSC
 ()
 ()
 ()

24: 72.000
 72.000
 90.000
 120.000
 135.000

BETAT 2.210
 -4.770

MACH 2.999

PARAMETRIC VALUES
 ALPHAT .000
 RUDDER .000
 RUDELR .000
 SPB:VC .500
 ELEVON .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

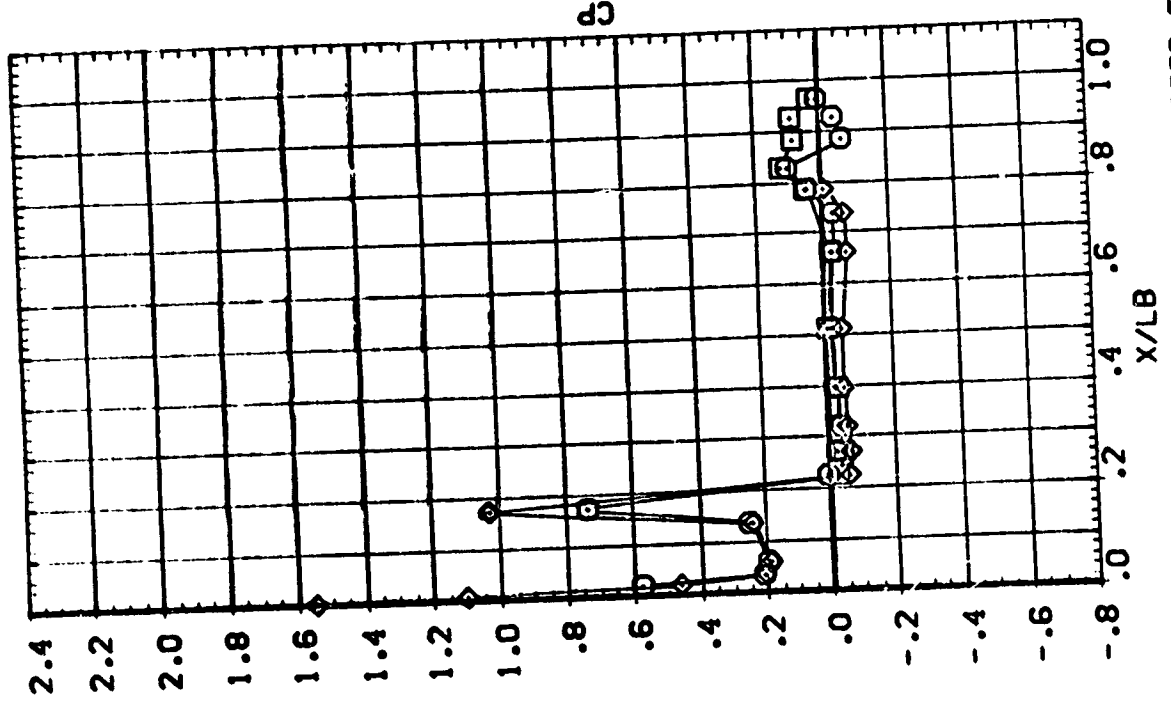
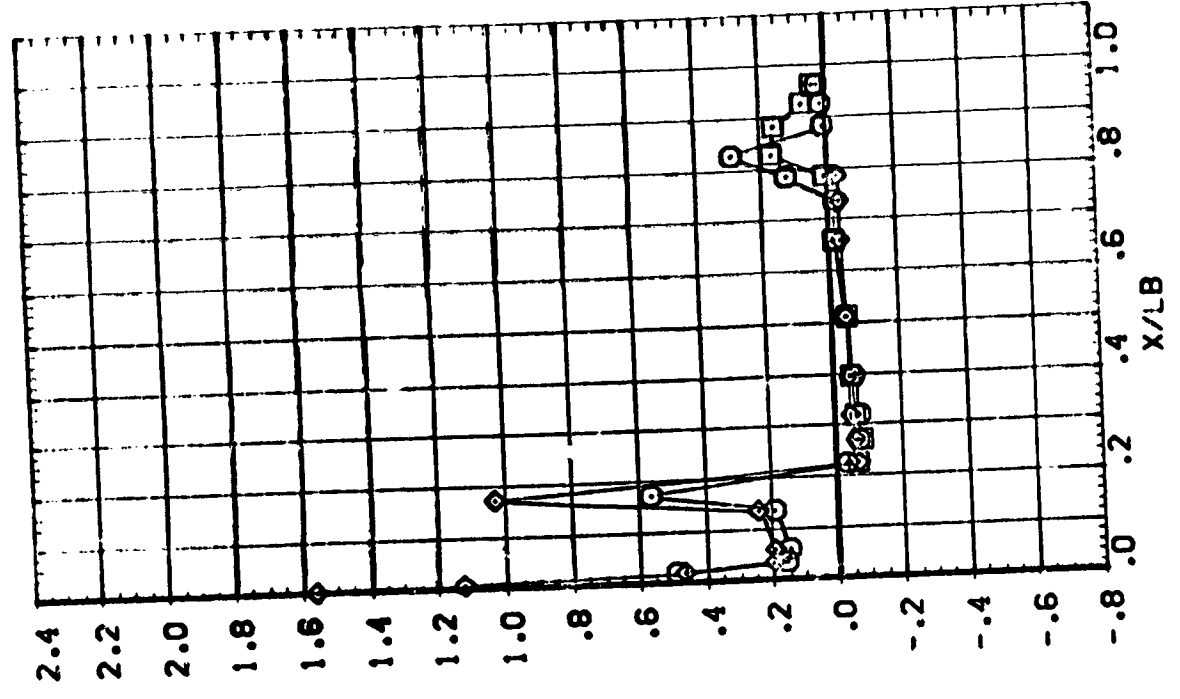
AVES 87-7C7 :A9 C2A + S3 + T9 ORBITER FUSELAGE (R8N3C6)

PARAMETRIC VALUES
 .0000000000000000
 .0000000000000000
 .0000000000000000
 .0000000000000000

ALPHAT
 RUDER
 RUDFLP

BETAT MACH
 -4.270 2.999
 2.210

PHI
 150.000
 165.000
 180.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

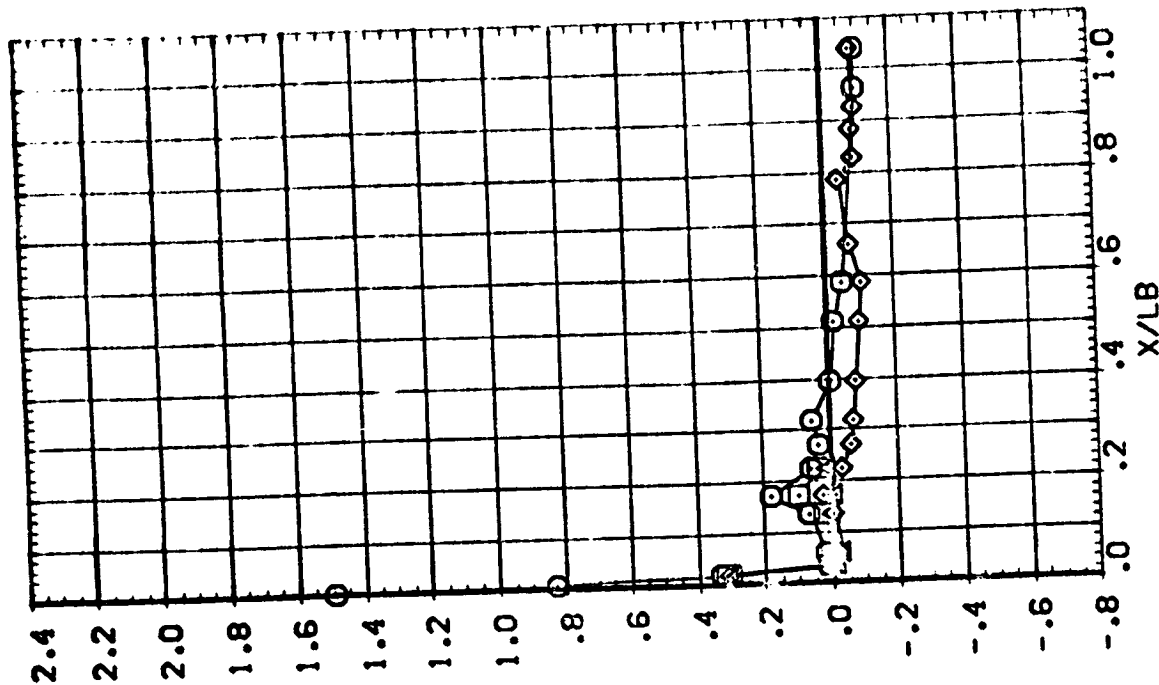
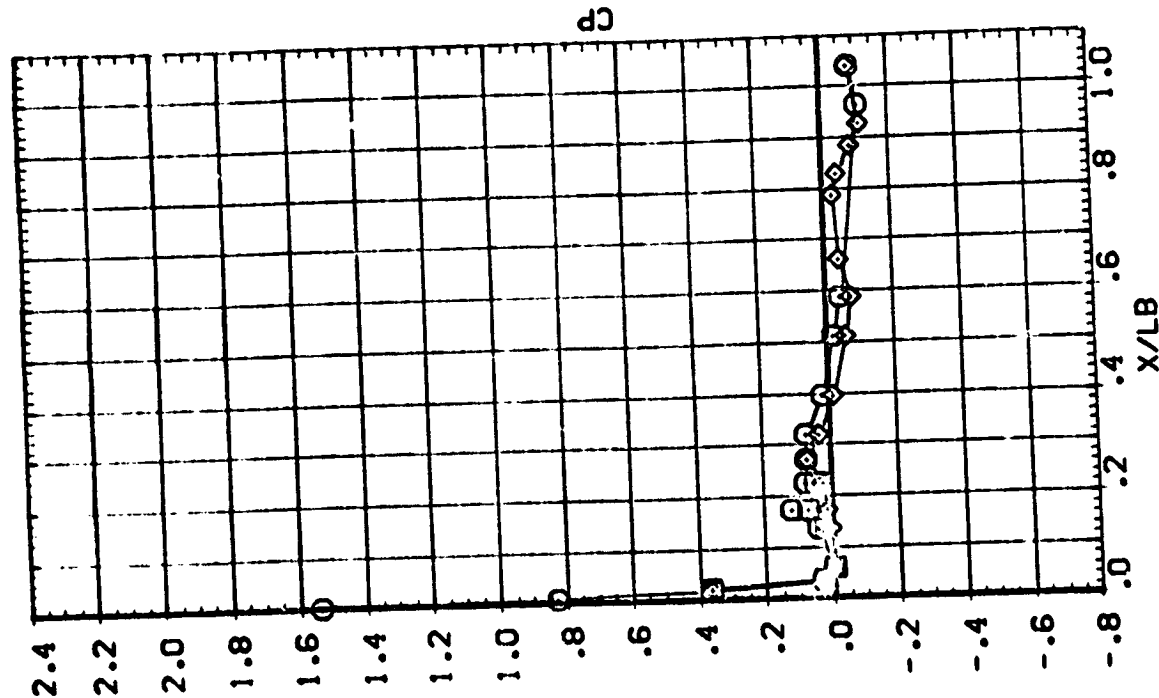
14-00000

AVES 87-707 :A9 C2A + S3 + T9 ORBITER FUSELAGE

SYNCH
0.000
20.000
40.000
55.000

BE" A" MACH
4.37C 2.999
8.69C

PARAMETRIC VALUES
ALPHAT .000 0.000 .500
RUDER .000 0.000 .500
RUDFLR .000 0.000 .500

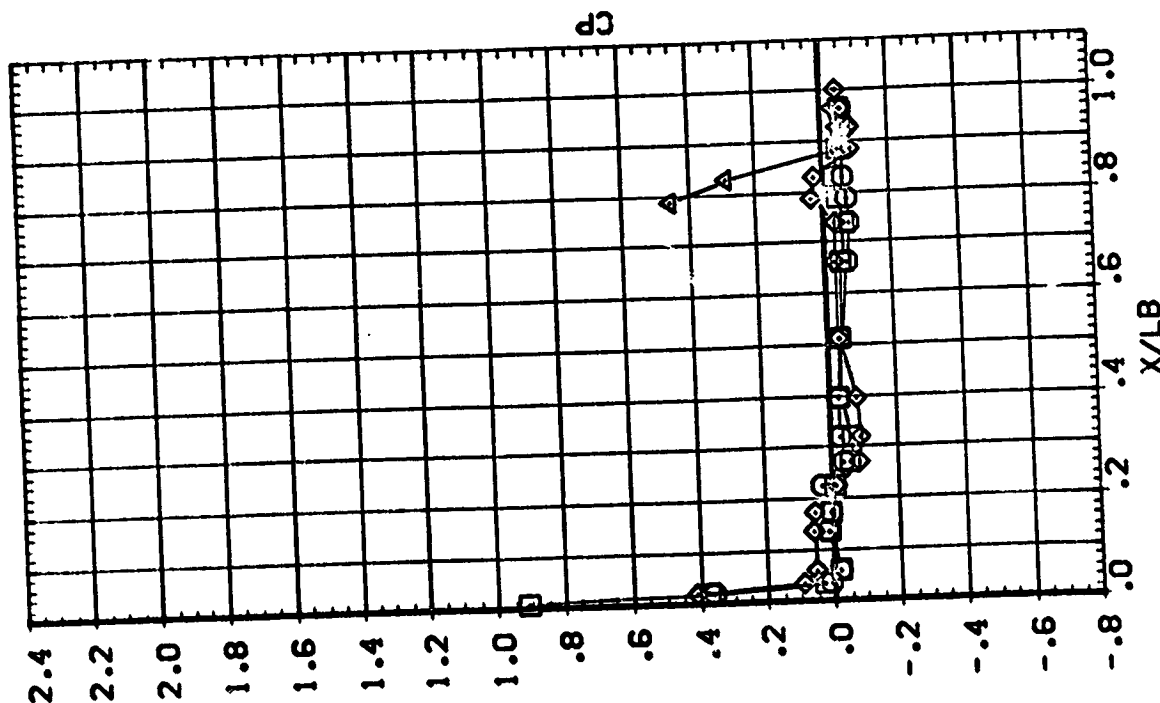
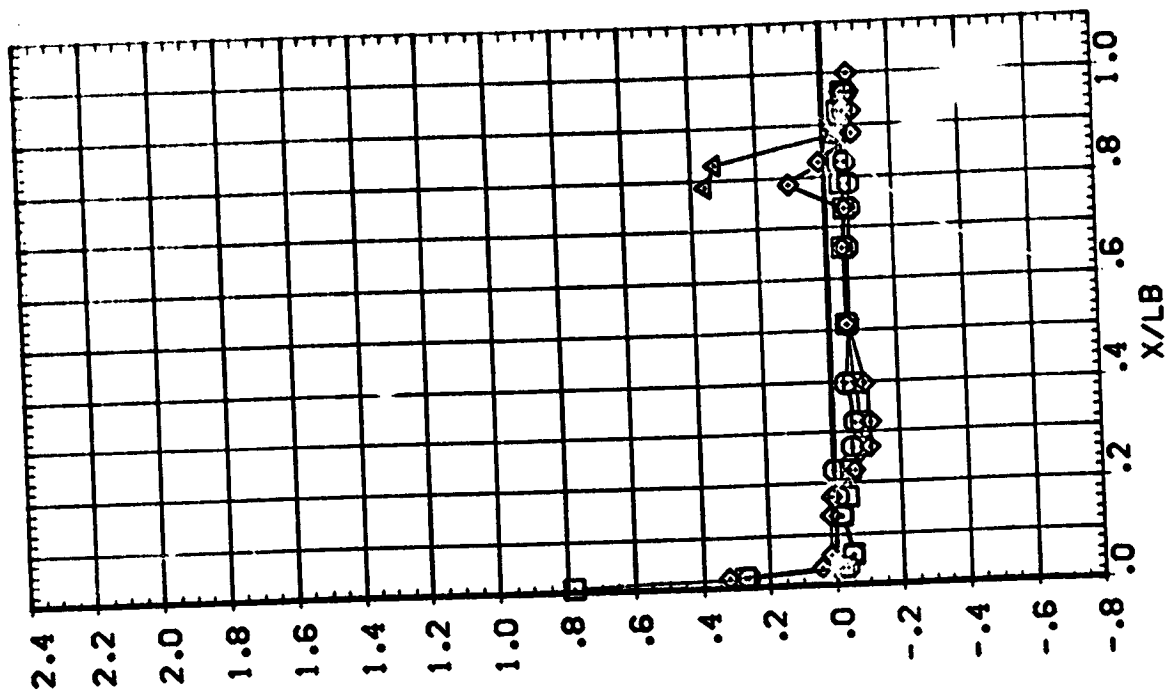


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

SYMBOL
 O
 □
 ◇
 △

QNI BETAT MACH
 70.000 4.370 2.999
 90.000 8.690
 120.000
 135.000

PARAMETRIC VALUES
 ALPHAT .000
 RODER .000
 RJOFLR .000
 SRBINC .500
 ELEVSN .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

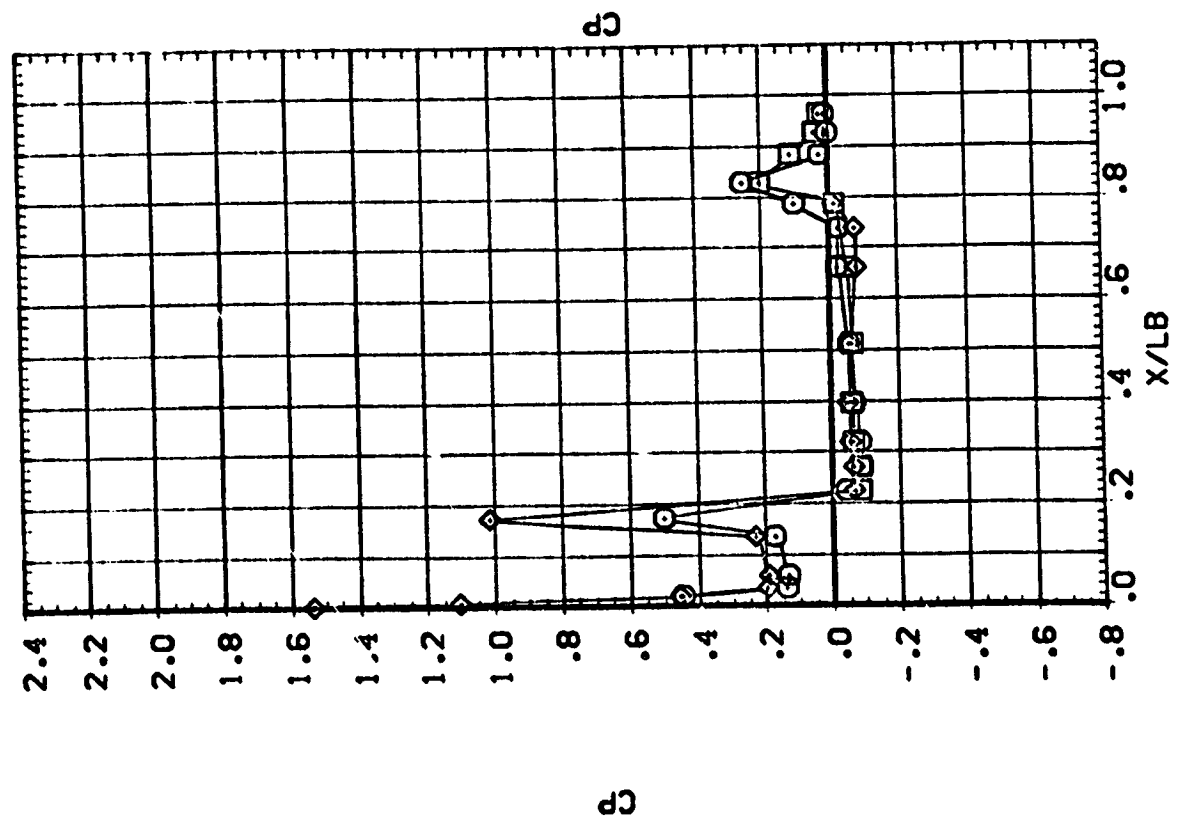
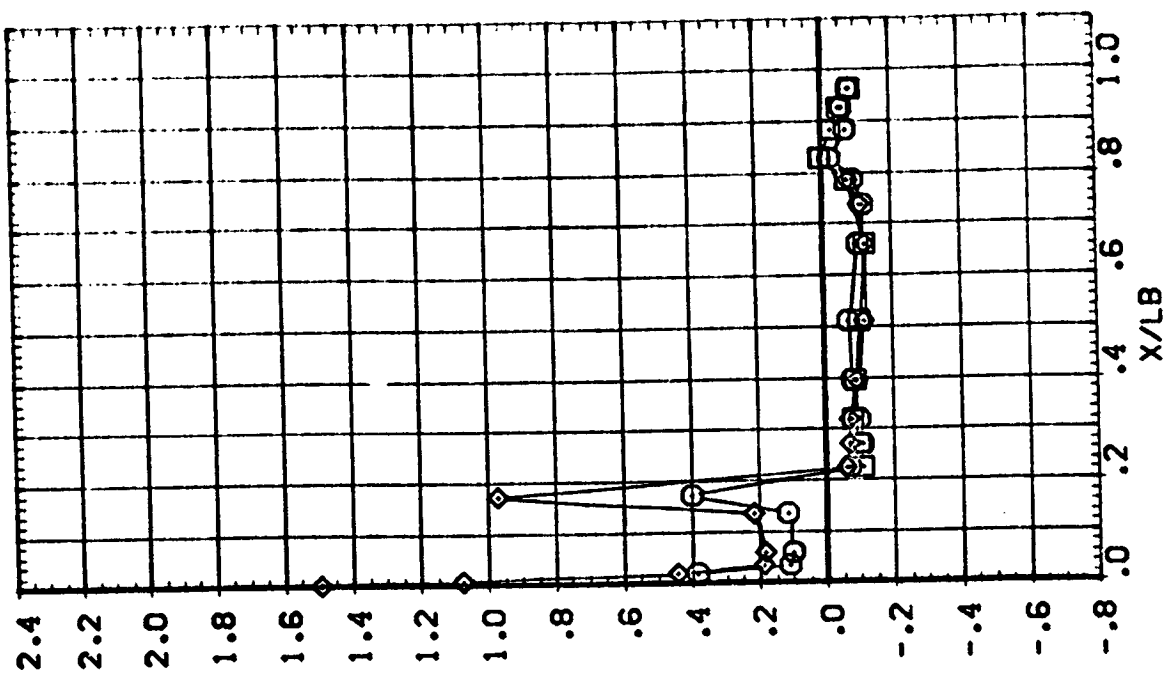
SYMBOL
 ()
 ()
 ()

PHI
 150.000
 165.000
 180.000

BETAT
 4.370
 8.690

MACH
 2.999

PARAMETRIC VALUES
 ALPHA1T .000 3981N
 RUDDER .000 ELEVON
 RUOTLR .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

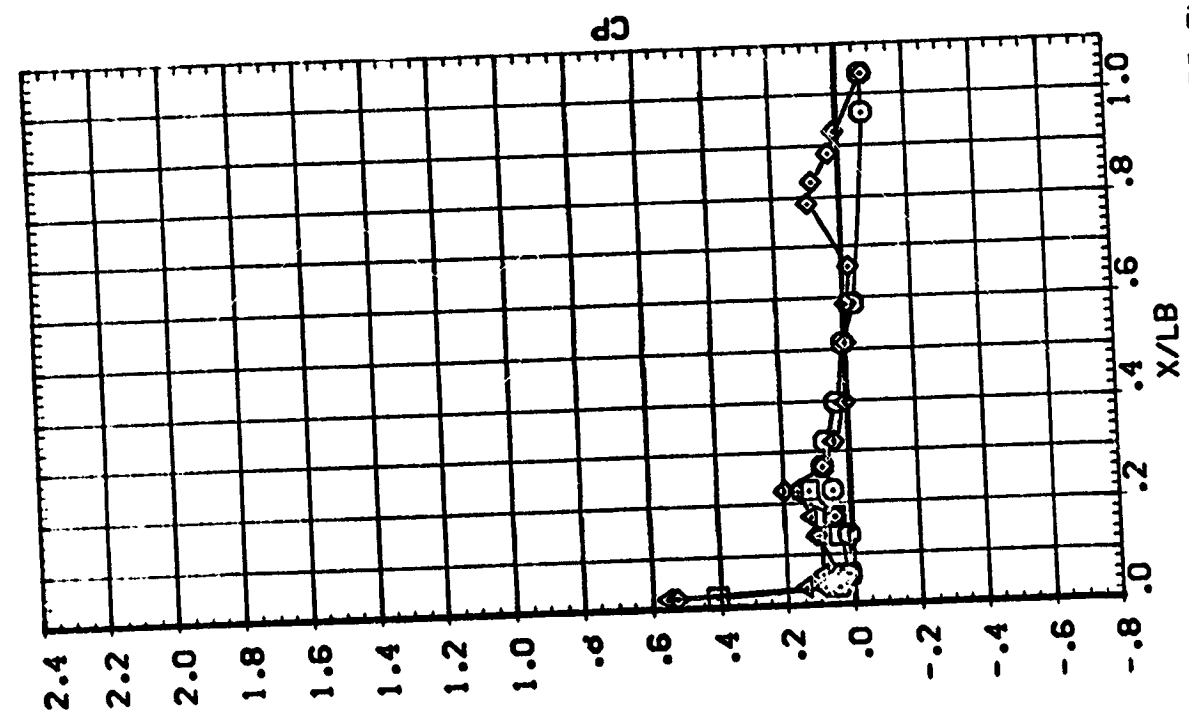
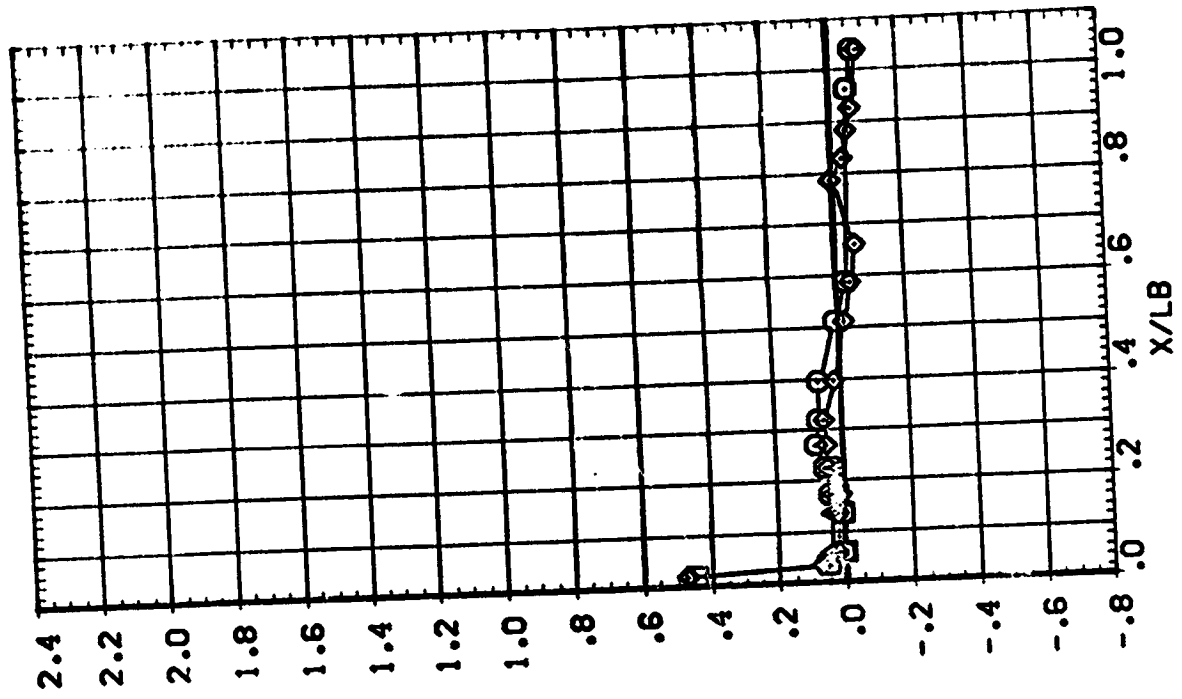
AVES 87-707 :A9 02A + S3 + T9 ORBITER FUSELAGE (RBNB06)

SYMBOL
 .000
 20.000
 40.000
 55.000

BETA
 -4.340
 2.260

MACH
 3.502

PARAMETRIC VALUES
 ALPHAT .000
 RUDDER .000
 RUOFLR .000
 ORBITAC .500
 ELEVEN .500



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 1A9 C2A + S3 + T9 ORBITER FUSELAGE (RBNB06)

SYMBOL
 70.000
 90.000
 120.000
 150.000

PHI
 70.000
 90.000
 120.000
 150.000

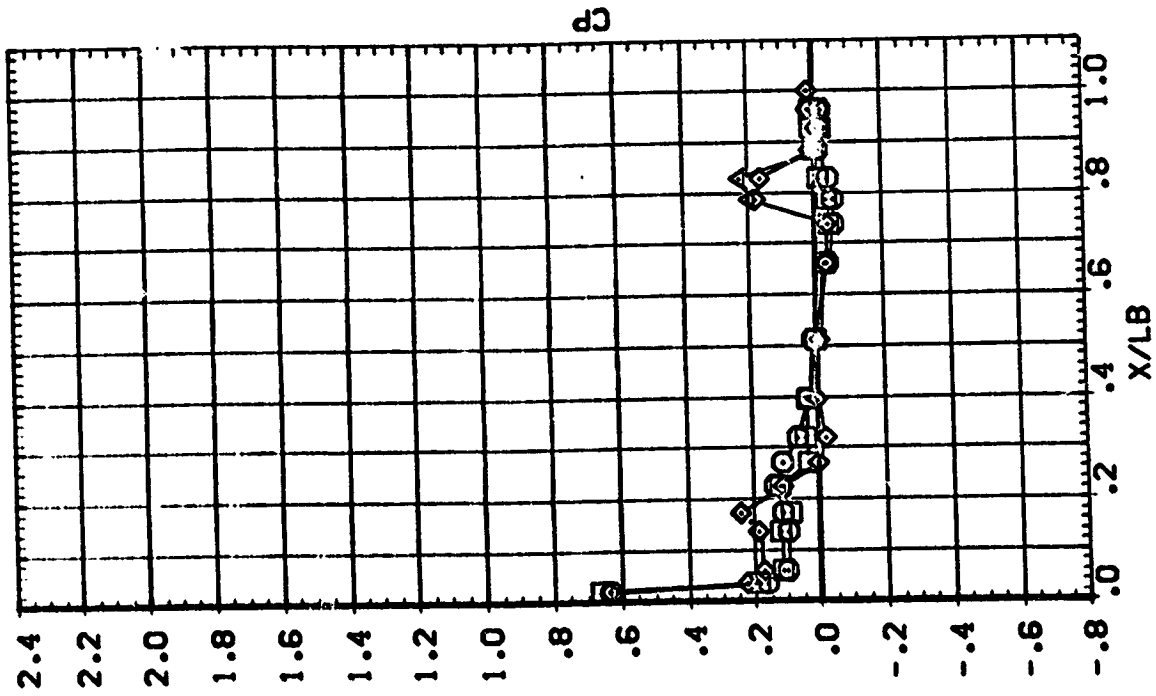
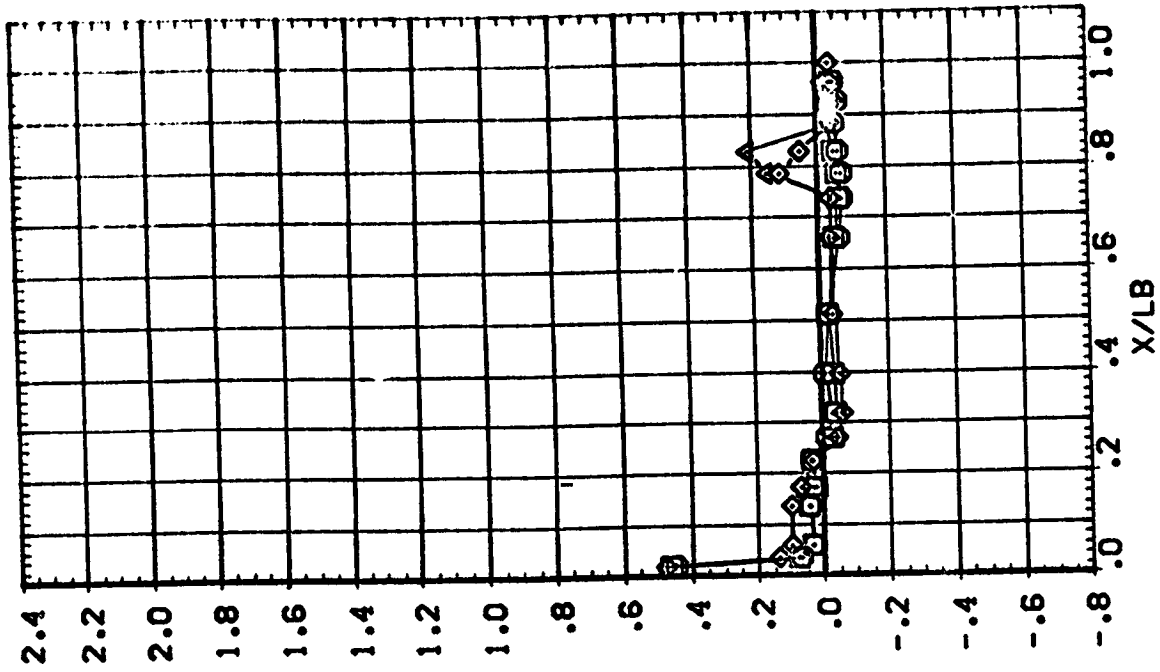
BETA
 -4.340
 2.260

MACH
 3.502

PARAMETRIC VALUES
 ALPHAT
 RLODR
 RLOFLR

.000
 .000
 .000

.000
 .000
 .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

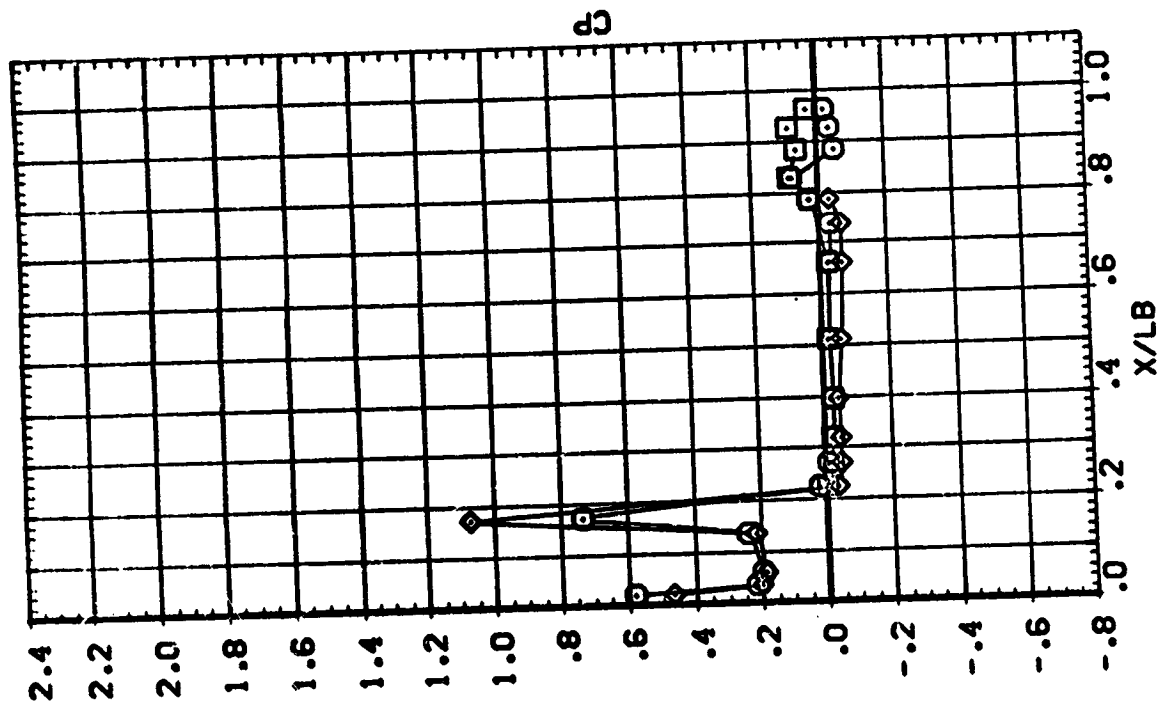
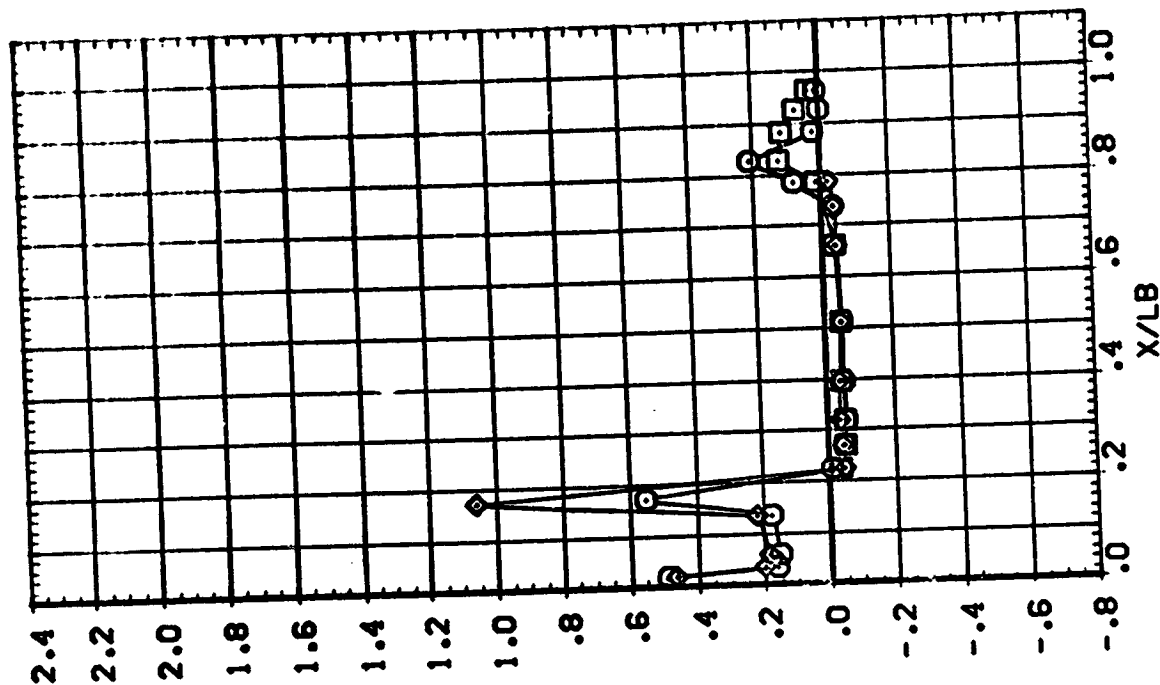
AVES 87-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBNB06)

PARAMETRIC VALUES
 .000 ORBIT INC .500
 .000 ELEVON .000

ALPHAT
 RUDDER
 RUOFLR

BETAT MACH
 -4.340 3.502
 2.260

SYSC-
 150.000
 165.000
 180.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AYES 87-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBNB06)

PARAMETRIC VALUES

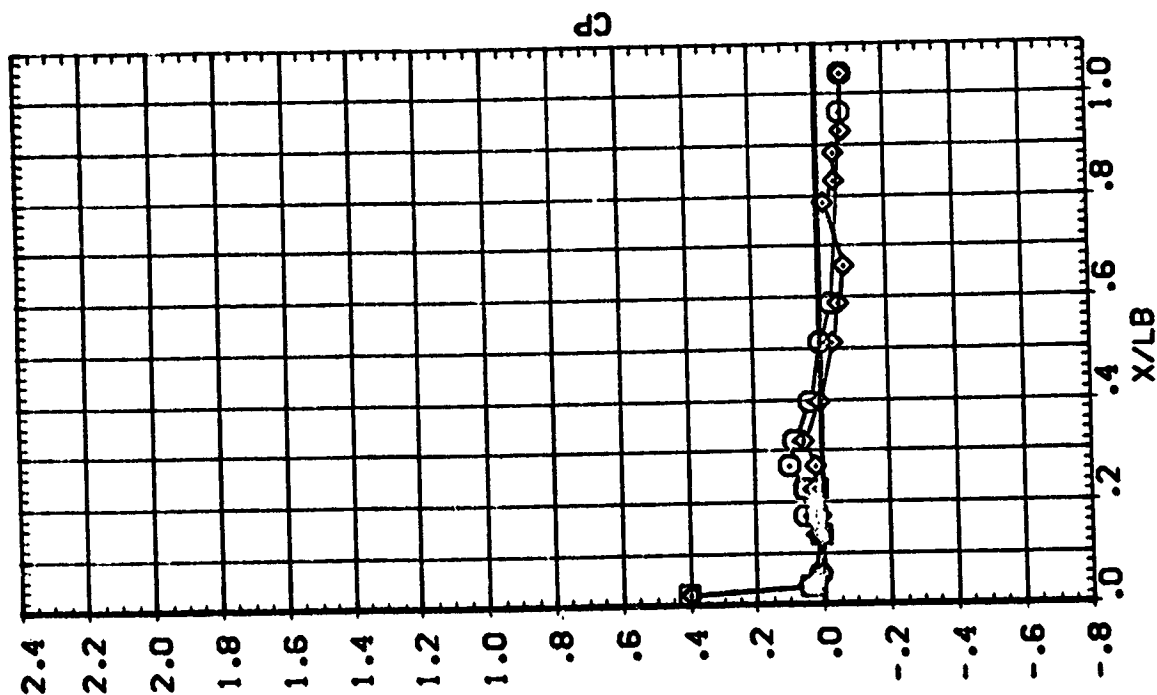
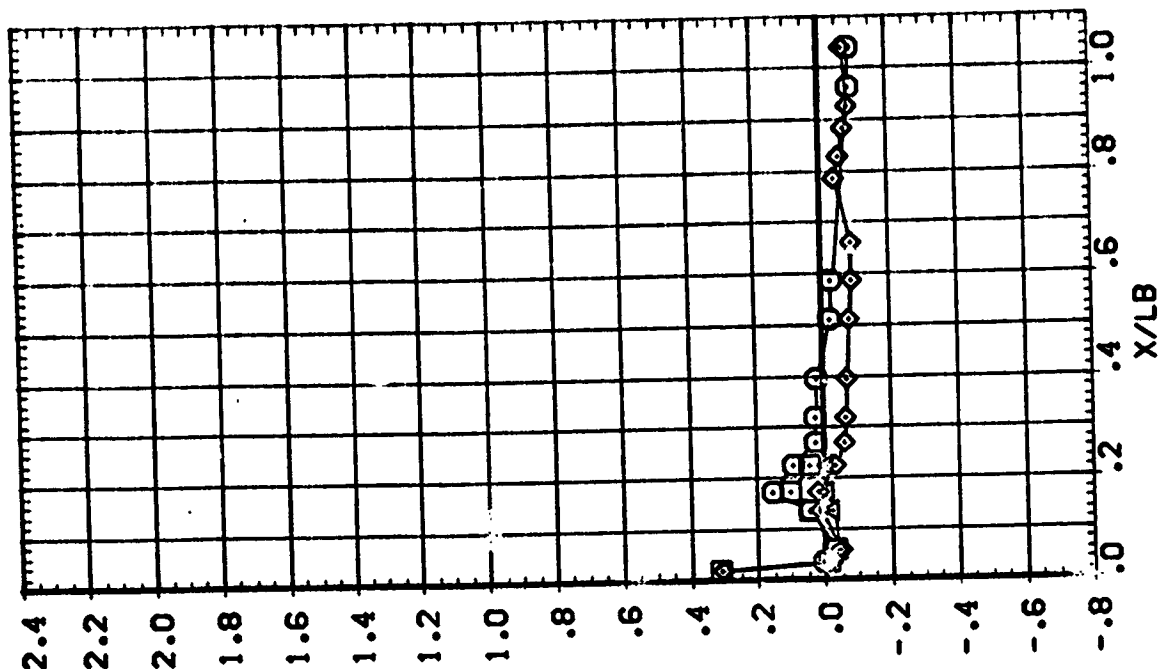
ALPHAT	ORBIT	ELEV
.000	.000	.000
.000	.000	.000
.000	.000	.000

ALPHAT
RLODR
RLOFLR

BETAT MACH
4.450 3.502
8.850

PHI
.000
20.000
40.000
55.000

SYMBOL
O
D
A



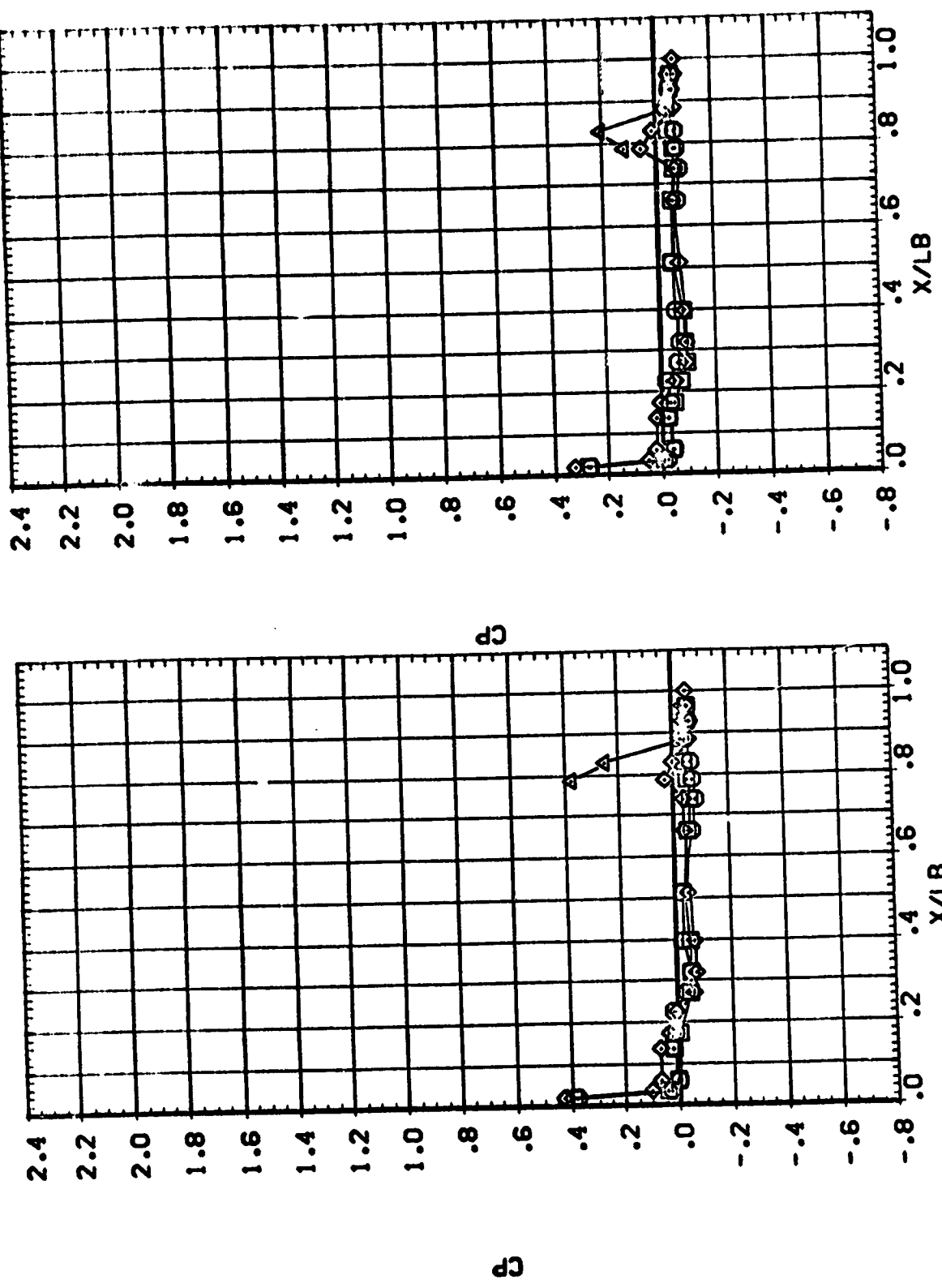
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (R8N806)

SYMBOL
 70.000
 90.000
 170.000
 35.000

BEAT PACH
 4.450 3.502
 9.850

PARAMETRIC VALUES
 ALPHA .000
 RUDDER .000
 RUFLR .000
 ORBIT .000
 ELEV .000

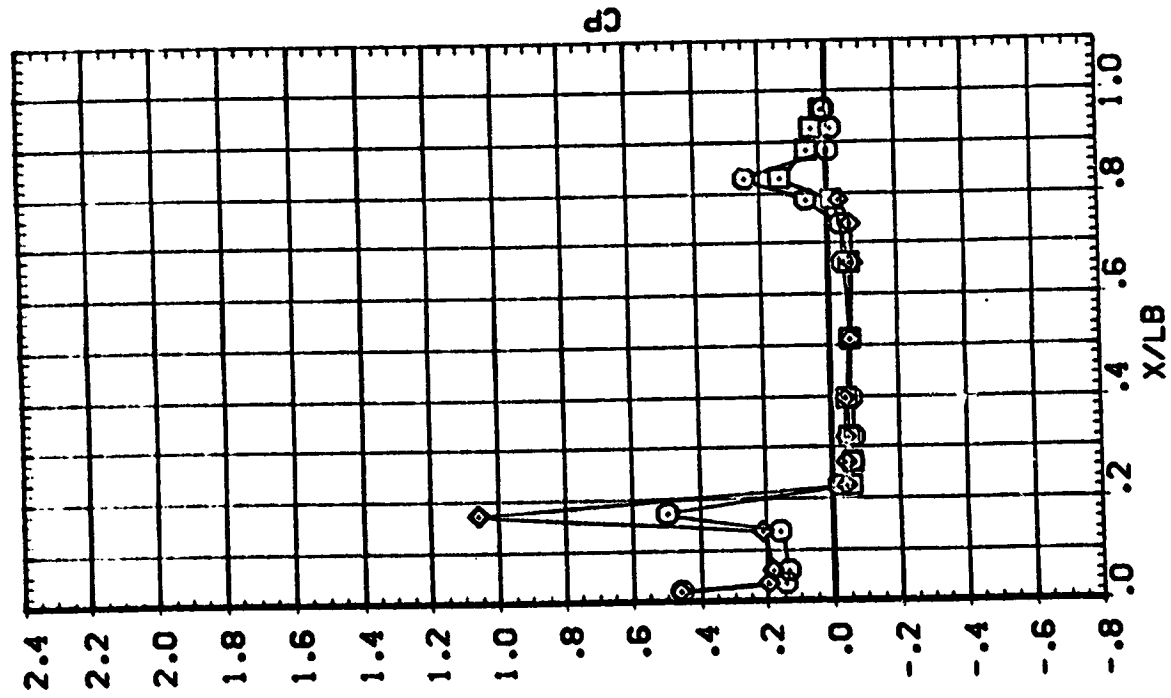
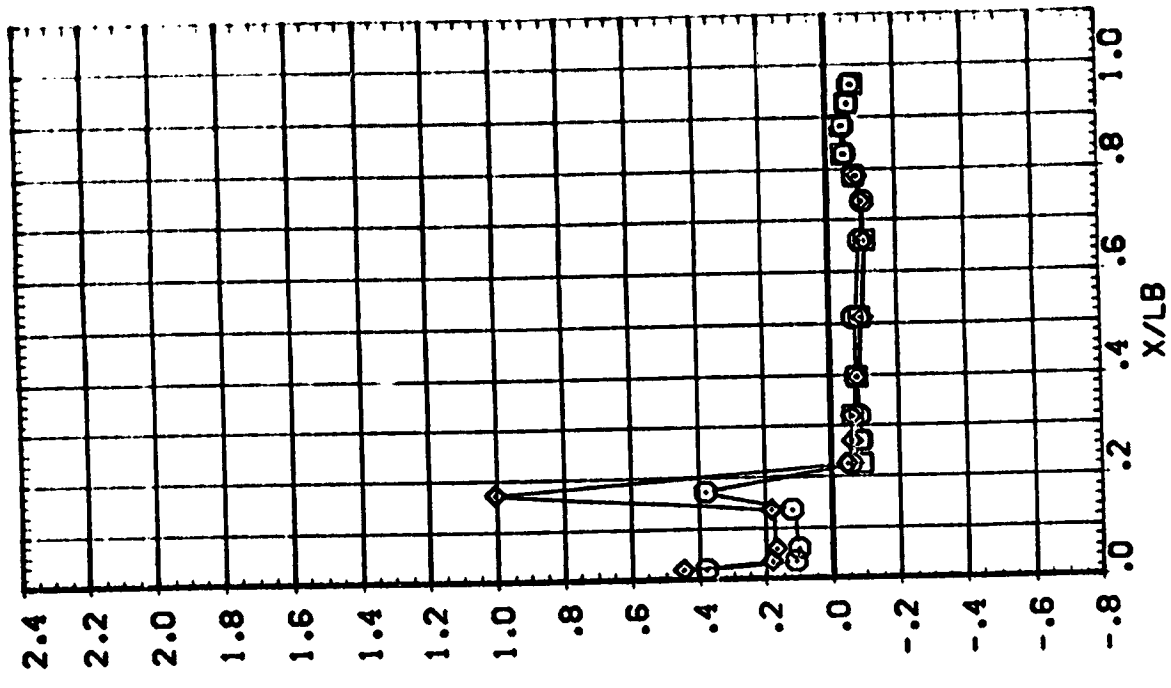


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

PARAMETRIC VALUES
ALPHAT .000 DB:NC .500
RLODR .000 ELEVON .000
RLOFLR .000

BETAT 4.450 MACH 3.502
B:OSC 8.850

SY-SC
150.000
165.000
180.000



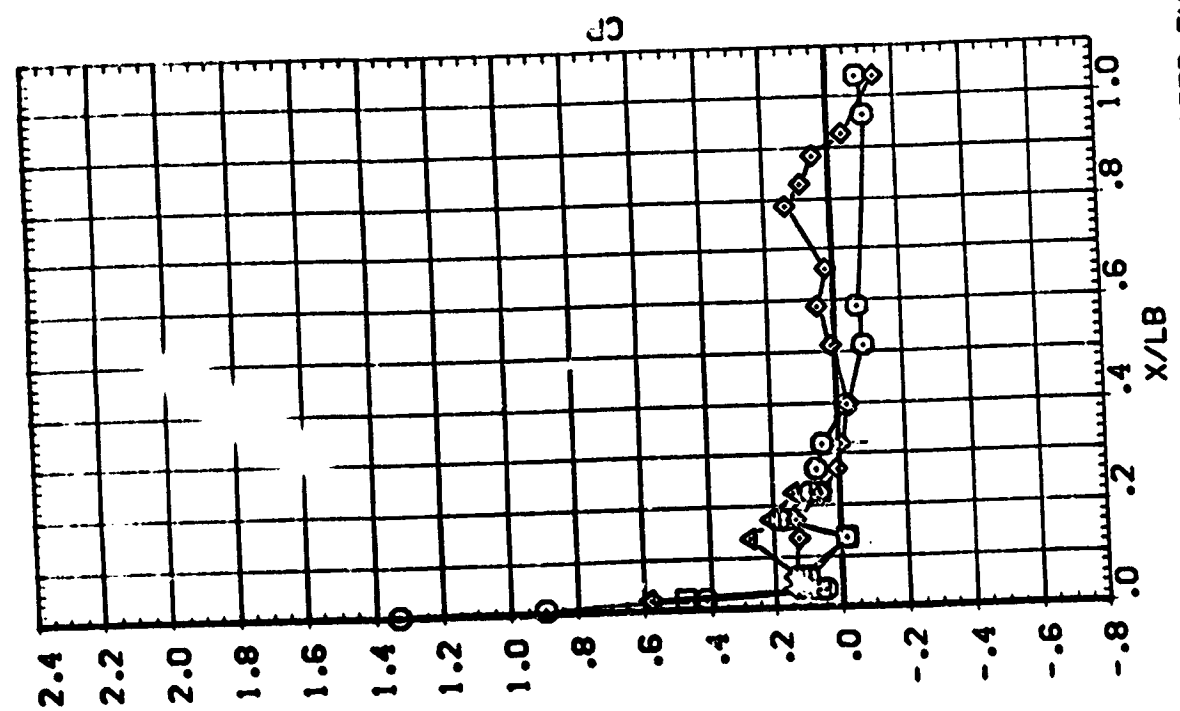
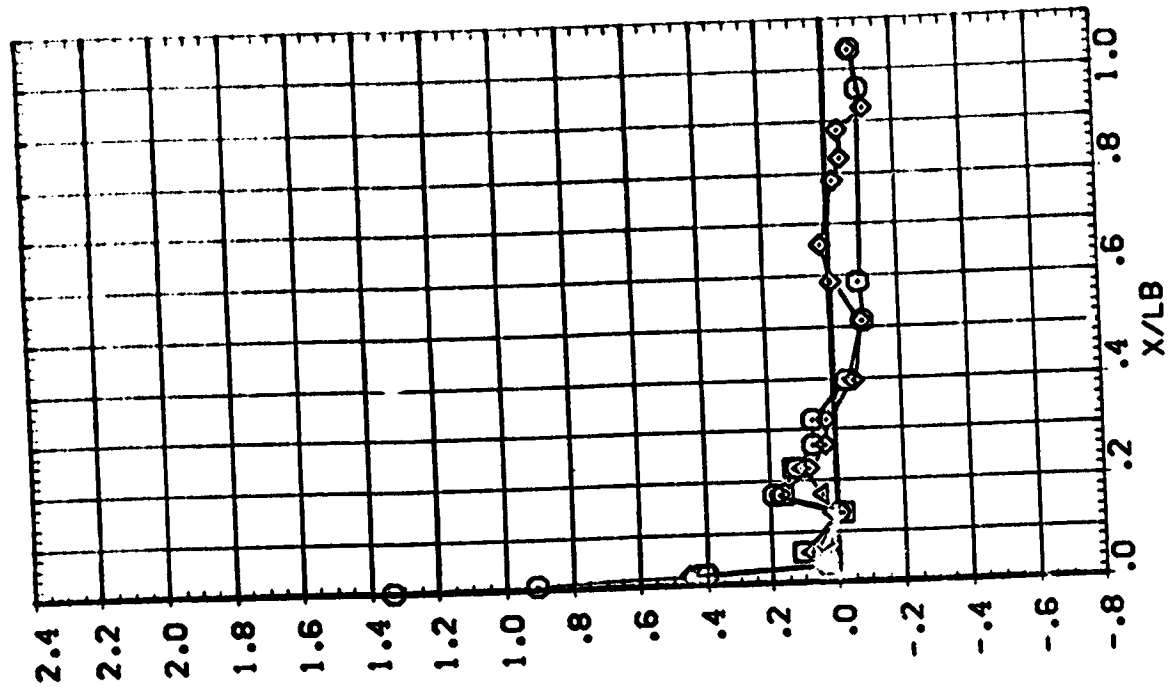
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 :A9 C2A + S3 + T9 ORBITER FUSELAGE (RBN308)

SMO. PVI. BEYAT MACH
 () -4.190 2.498
 = 20.000 2.170
 O 40.000
 Δ 55.000

PARAMETRIC VALUES
 4.000 99.000
 .000 ELEVATION
 .000

ALPHAT
 RUDDER
 RUDDER



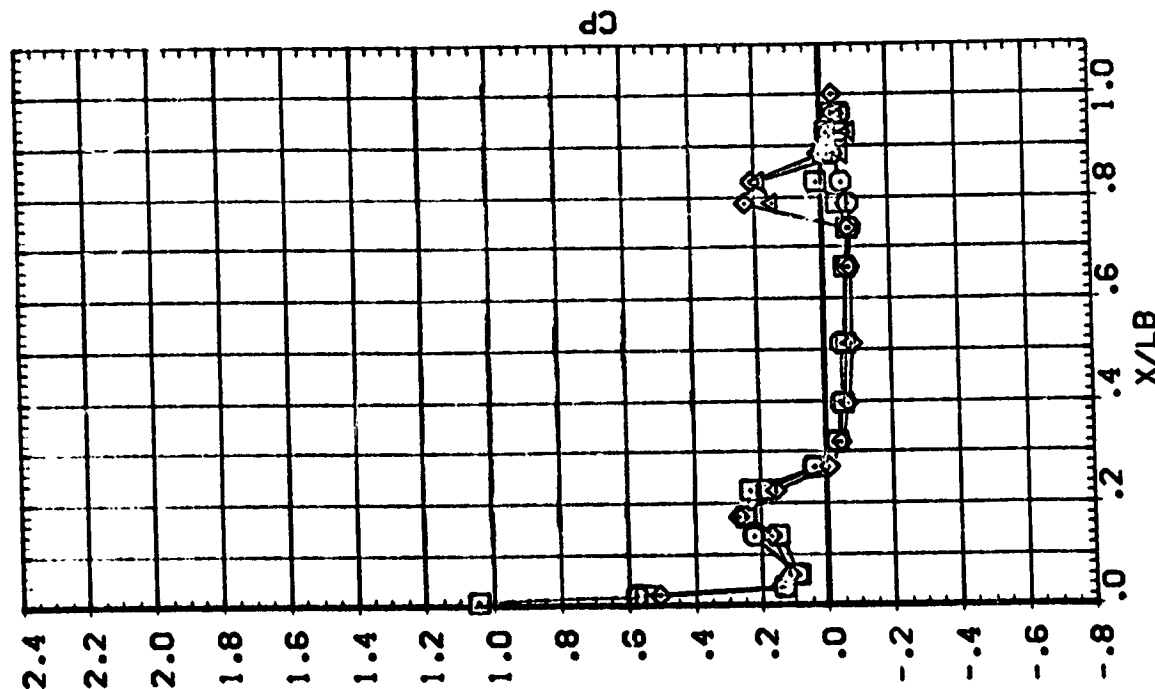
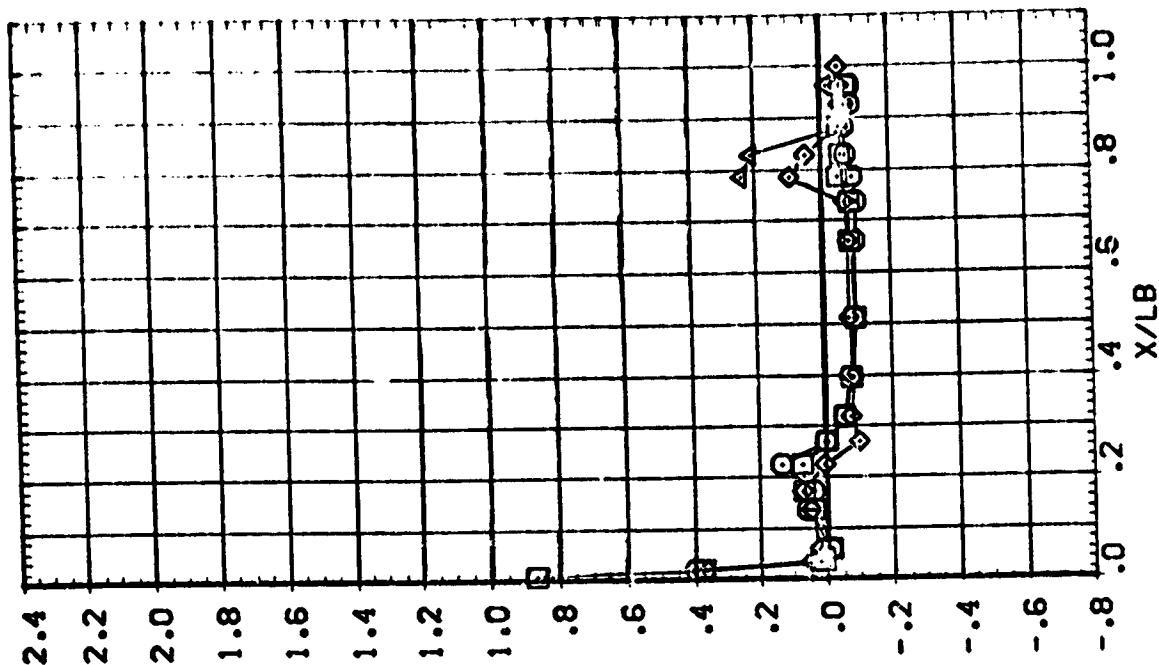
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 :A9 C2A - S3 + '9 CRBITER FUSELAGE (RBNB08)

SYMBOL
 O : 70.000
 X : 90.000
 Δ : 120.000
 : 35.000

BETAT MACH
 -4.190 2.498
 2.170

PARAMETRIC VALUES
 ALPHA 4.000
 RUDDER .000
 RUOFLR .000
 SPRING .500
 ELEVON .000

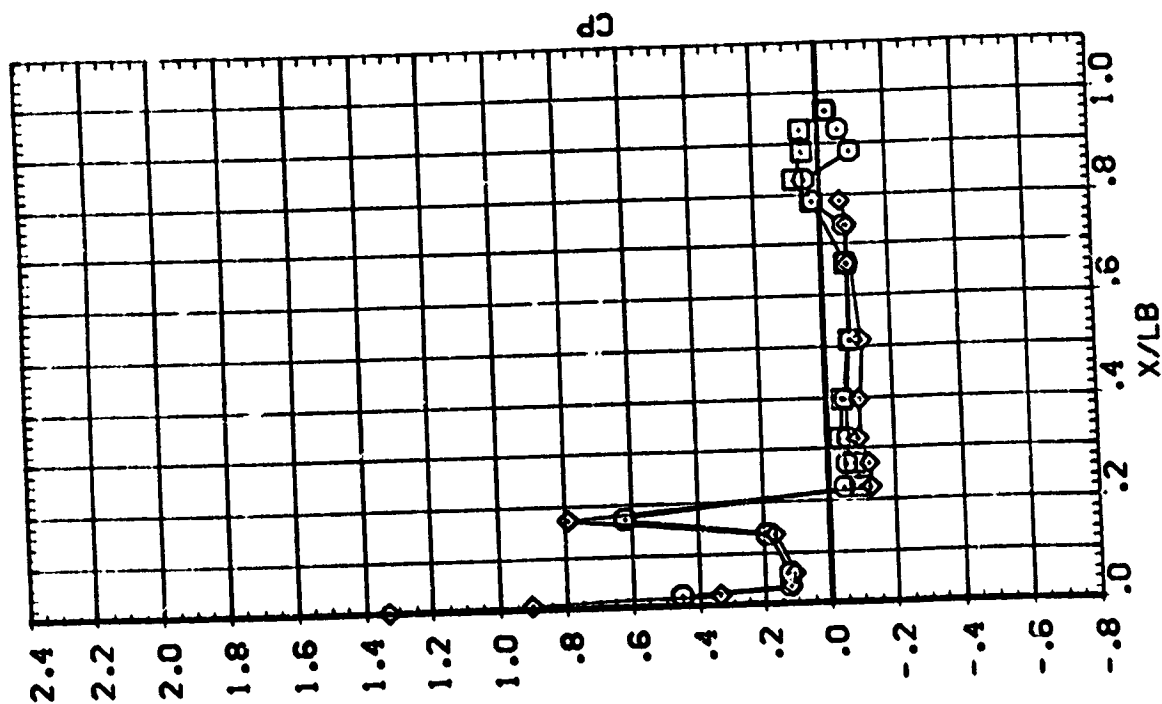
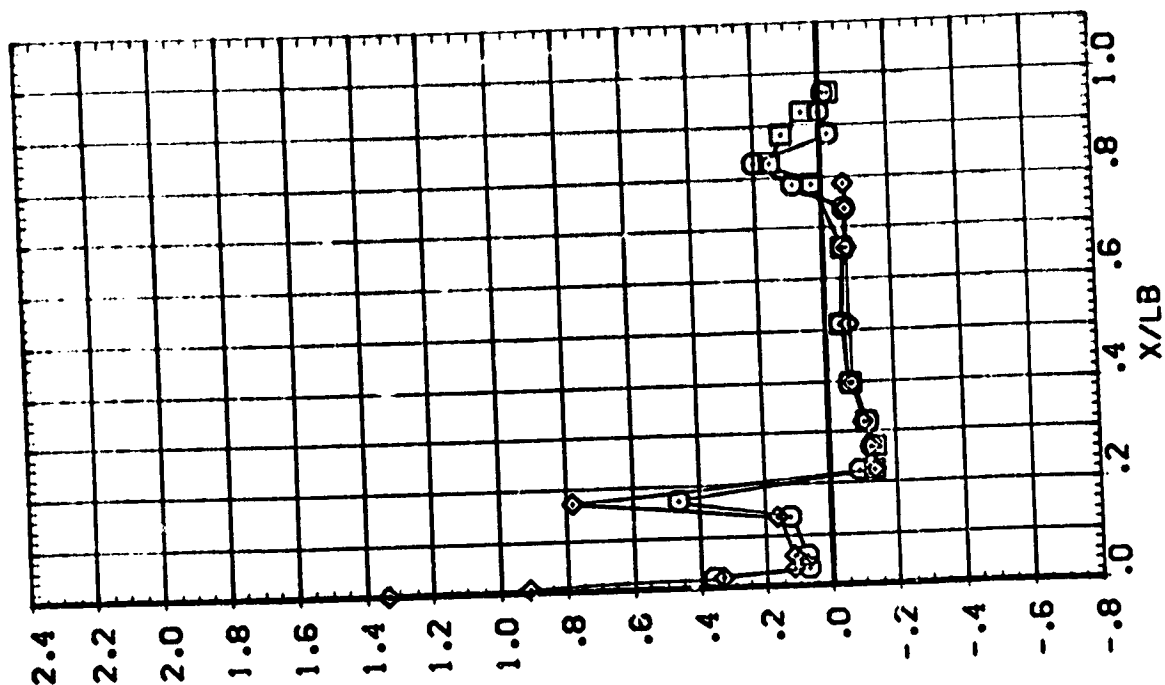


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 1A9 02A * S3 * 19 ORBITER FUSELAGE (R3N3C8)

PARAMETRIC VALUES
 ALPHA 4.000
 DBINC .500
 ELEVON .000
 RUDLER .000
 RUDFLR .000

BE'AT 2.498
 MACH 2.170
 P1: 50.000
 P2: 65.000
 P3: 80.000



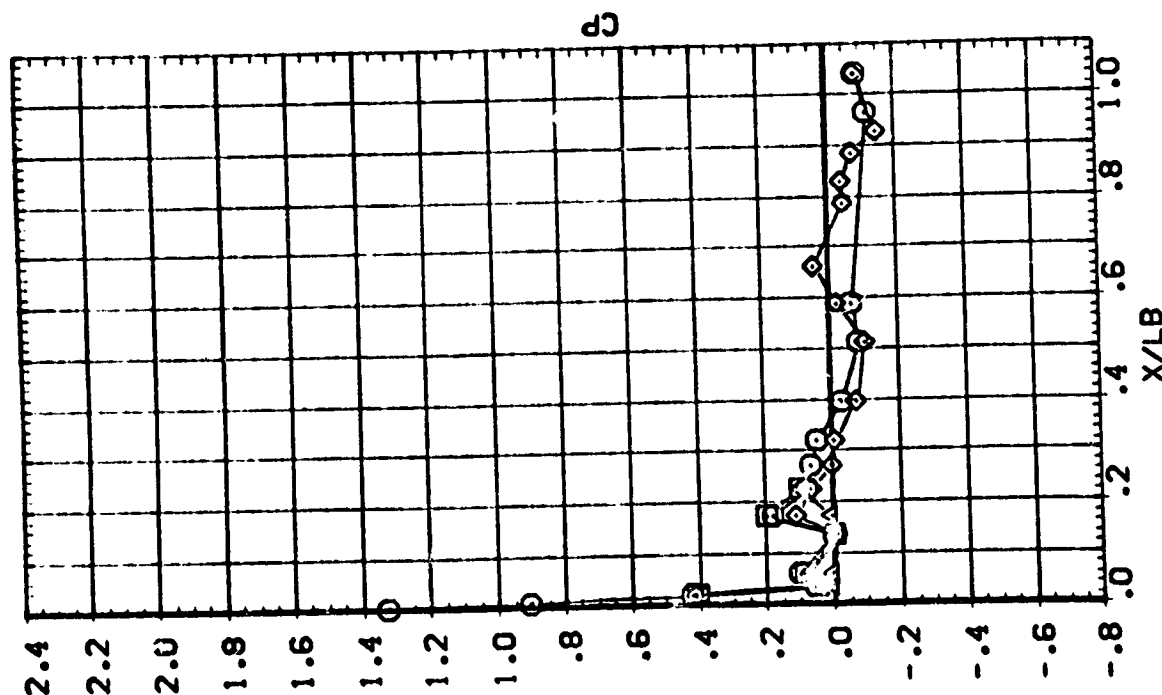
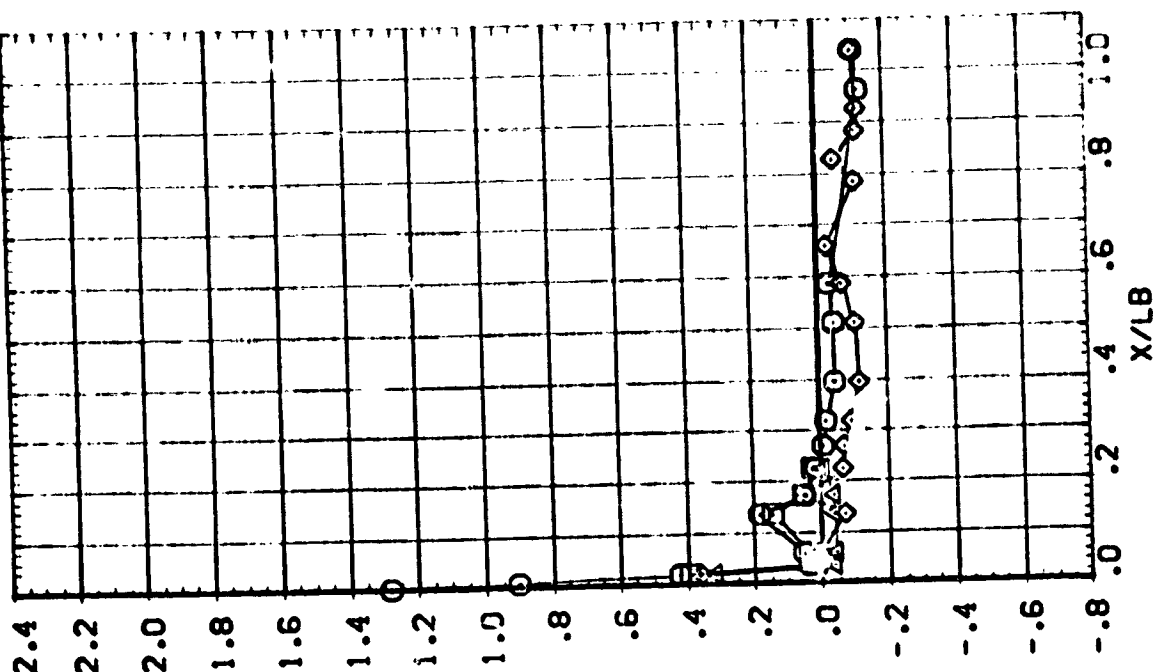
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 1A9 C2A + S3 + 19 ORBITER FUSELAGE (R8N808)

SYNOPSIS
 1.000
 20.000
 40.000
 55.000

BETA: MACH
 4.300 2.458
 8.550

PARAMETRIC VALUES
 ALPHA: 4.000 0.000
 RUDDER: .000 .000
 RUJTLR: .000 .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

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9-24

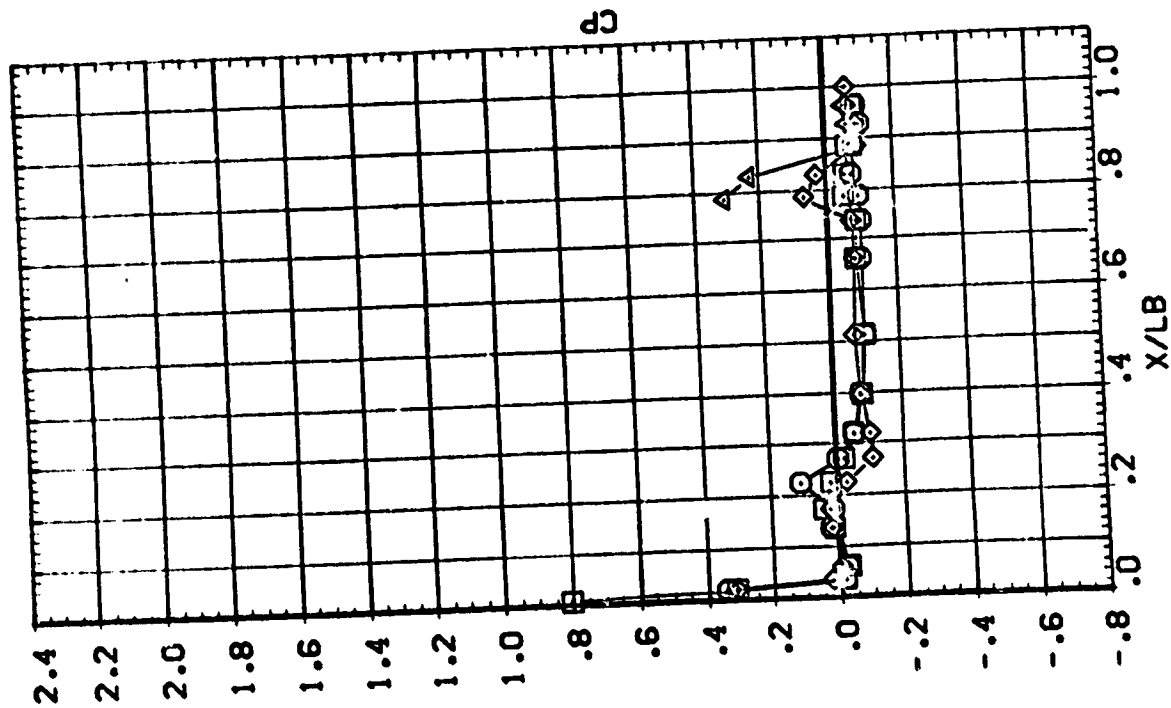
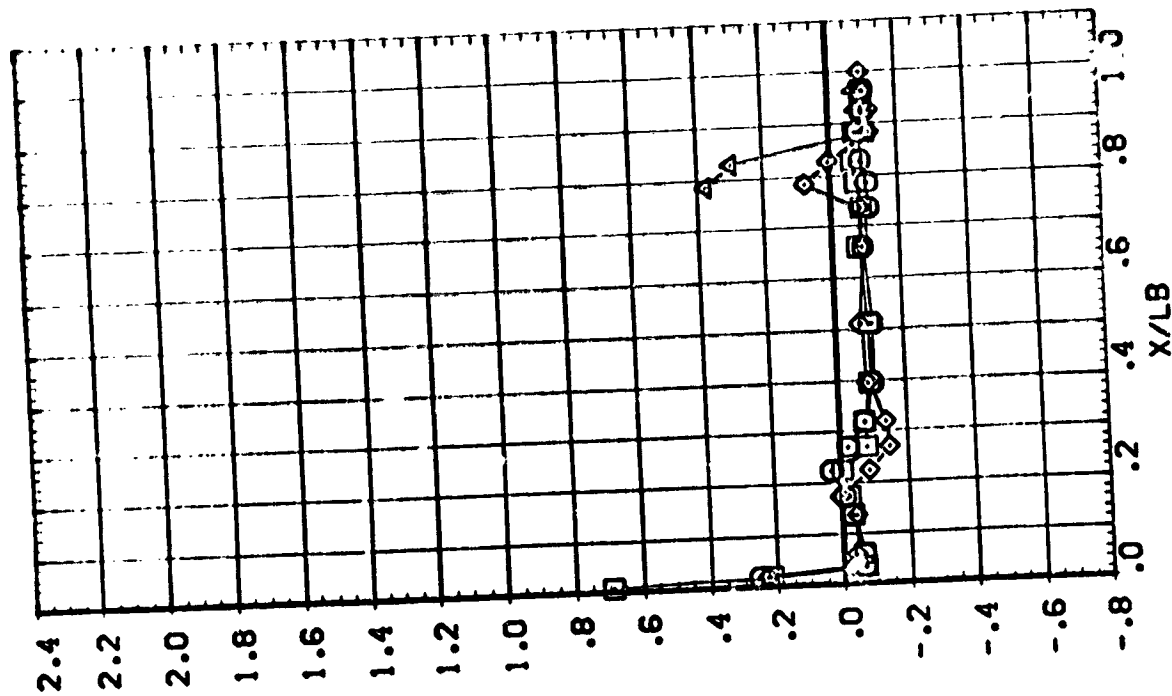
AVES 87-707 1A9 02A - S3 - 19 ORBITER FUSELAGE (RBN308)

SYSC. 011 0 1 2

PA: 70.000 4.300 2.498
 90.000 8.550
 120.000
 135.000

ALPHA: 0.200
 BETA: 0.200
 GAMMA: 0.200

PARAMETRIC VALUES
 4.000 0.000 1.000
 0.000 0.000 0.000

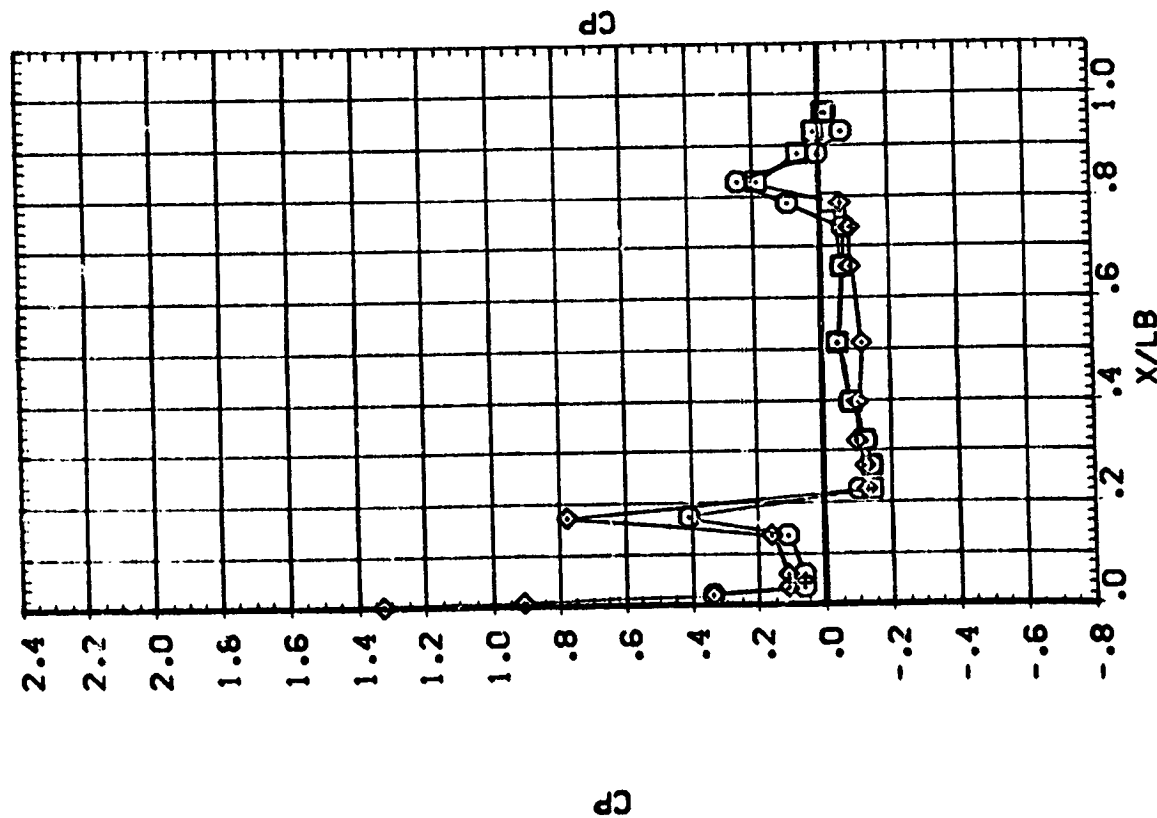
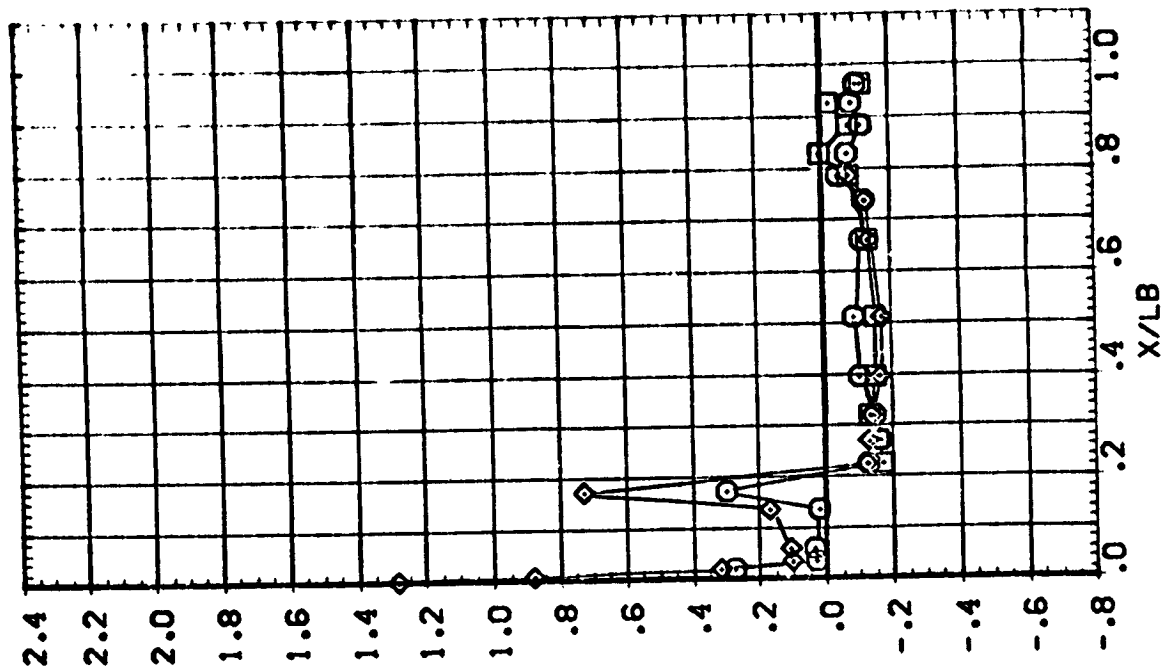


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

PARAMETRIC VALUES
 ALPHAT 4.000 098.1C
 RUDDER .000 ELEVON
 RUDDLR .000

SYMBOL
 :50.000
 :65.000
 :80.000

BETAT 4.300 2.458
 MACH 9.550

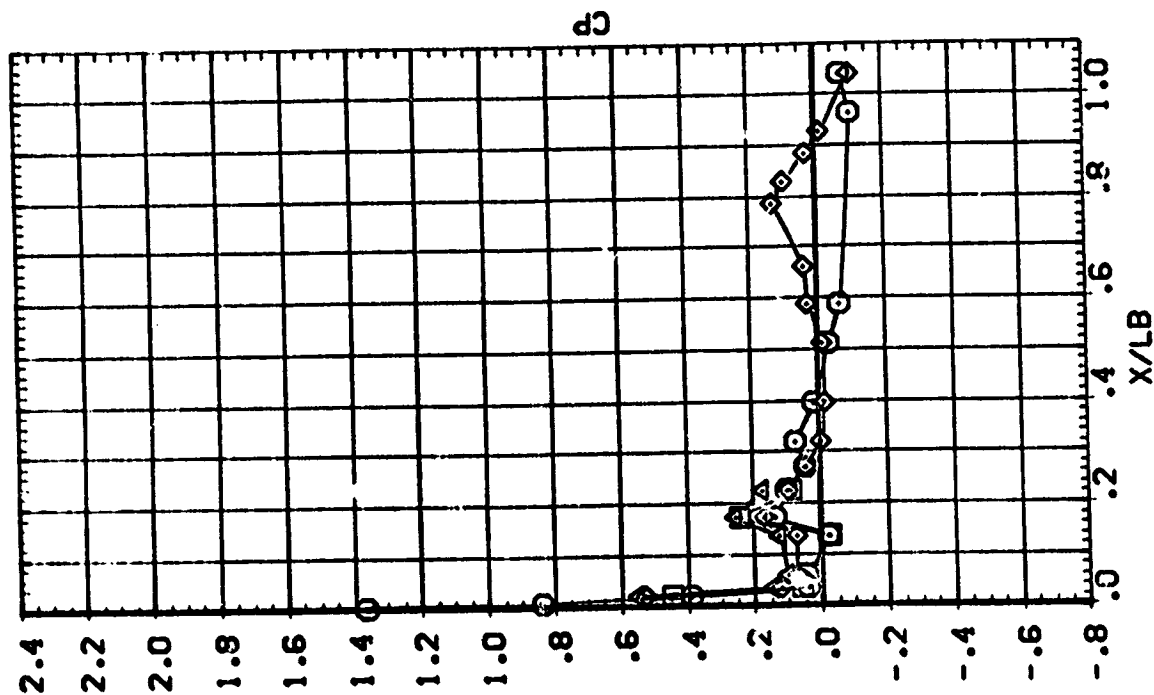
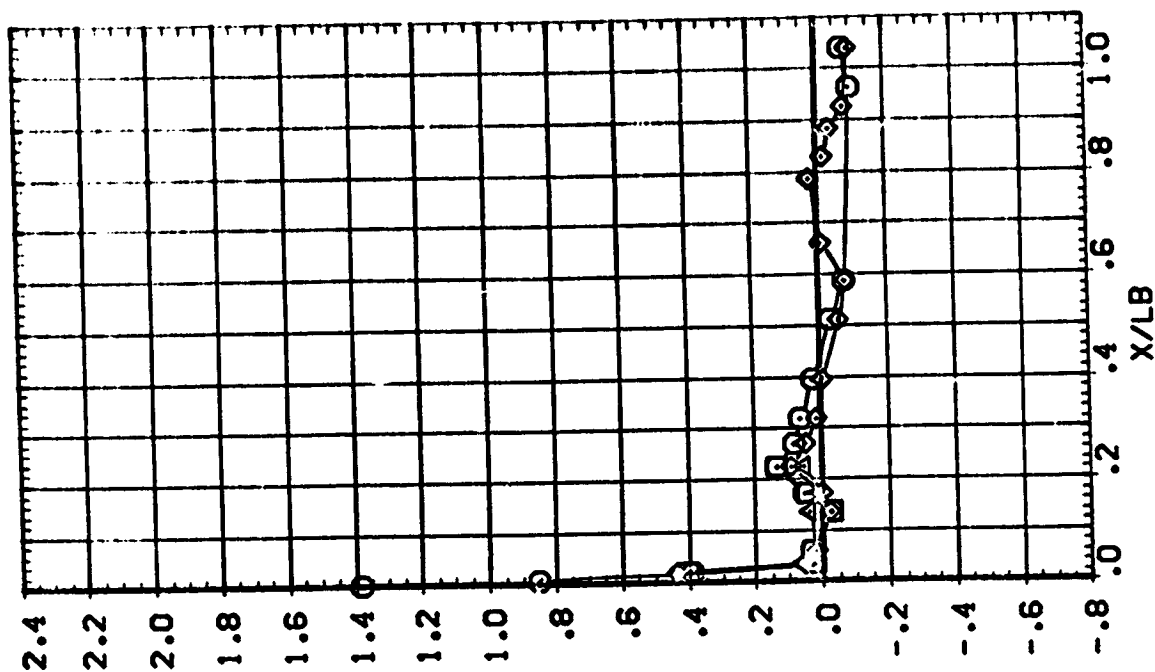


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 1A9 C2A + S3 + T9 ORBITER FUSELAGE (RBNB08)

PARAMETRIC VALUES
 ALPHAT 4.000
 RUDER .000
 RUDFLR .000
 SINC .500
 ELEV .000

5-90
 P-1
 BETAT MACH
 -4.260 2.999
 2.210
 20.000
 40.000
 55.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

SYMC
 ○ ○ ○
 △

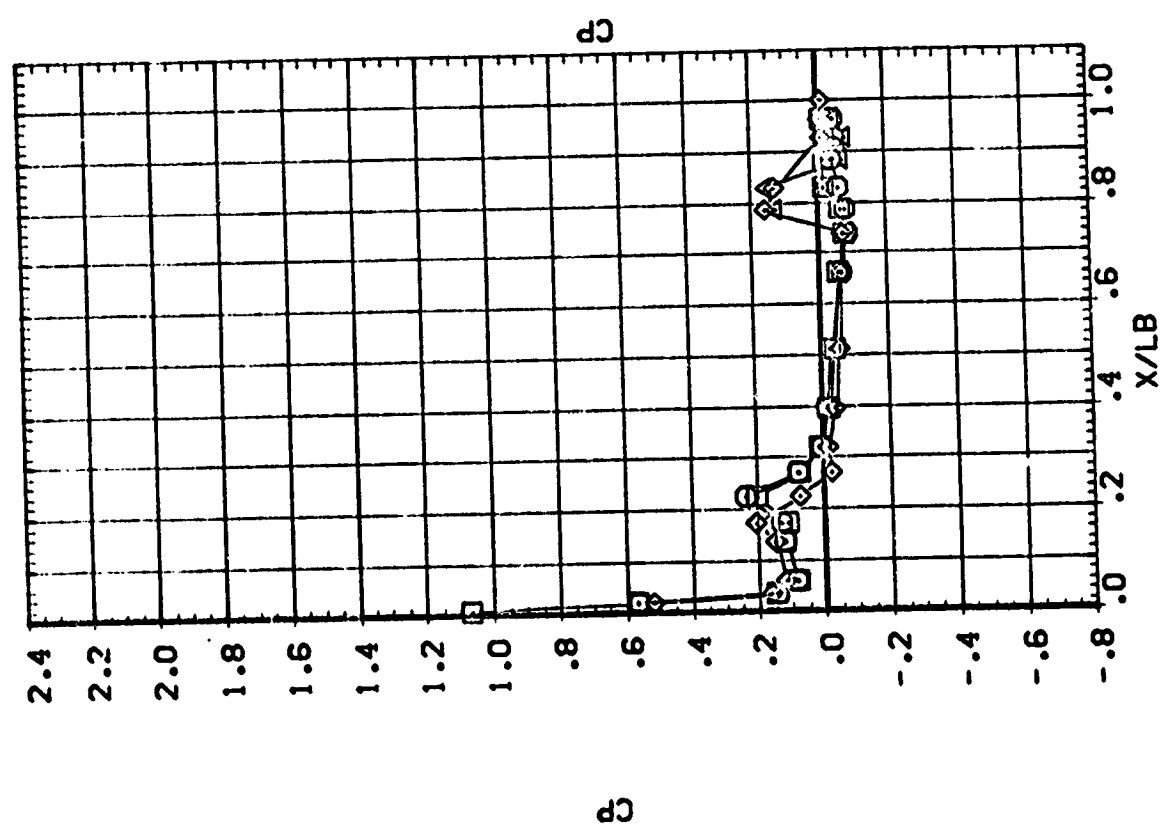
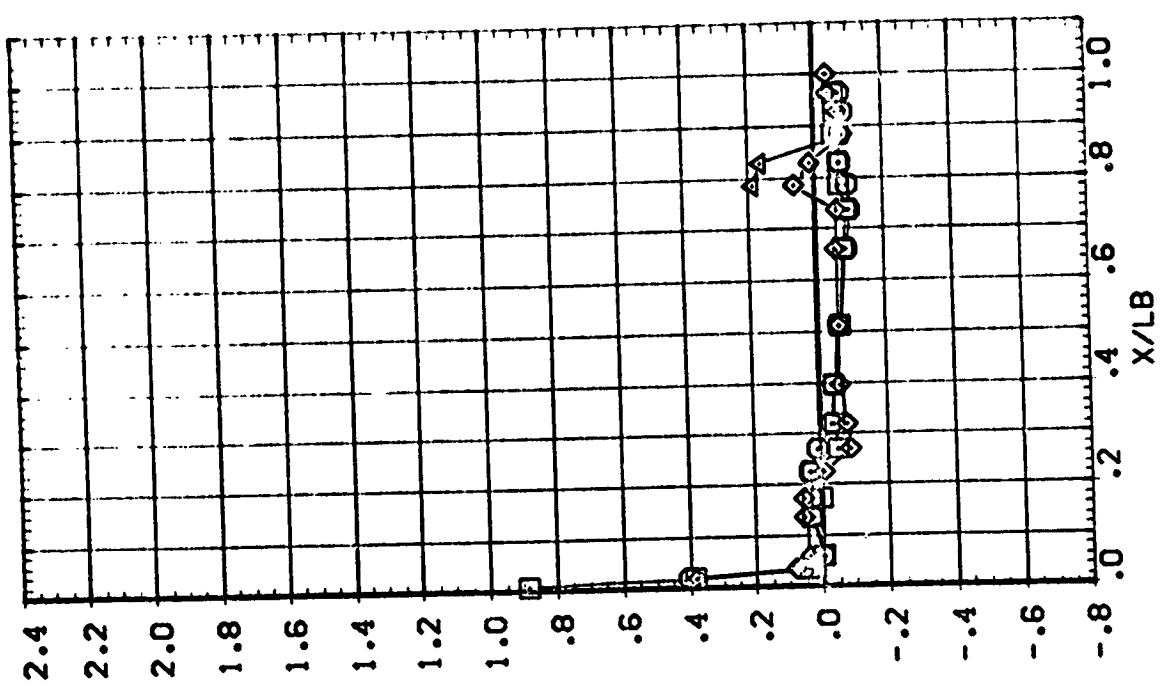
PH: 70.000
 90.000
 120.000
 135.000

BETA: -4.750
 2.210

MACH: 2.999

PARAMETRIC VALUES
 ALPHA: 4.000
 RUGER: .000
 ELEV: .000

500
 .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

III

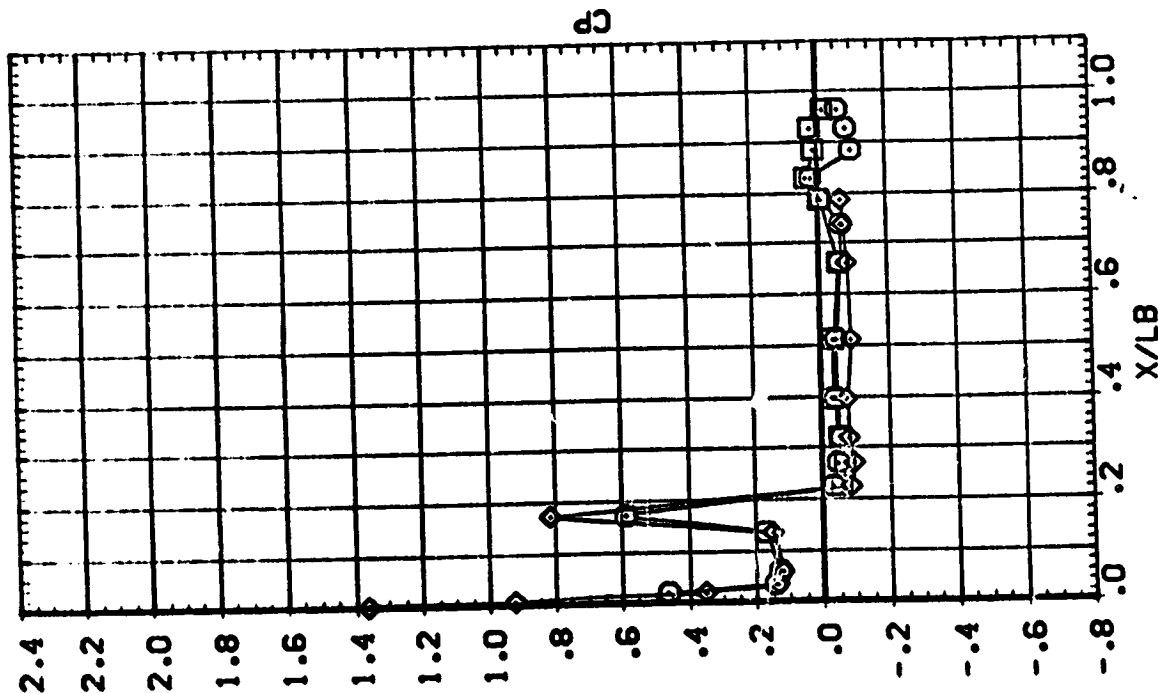
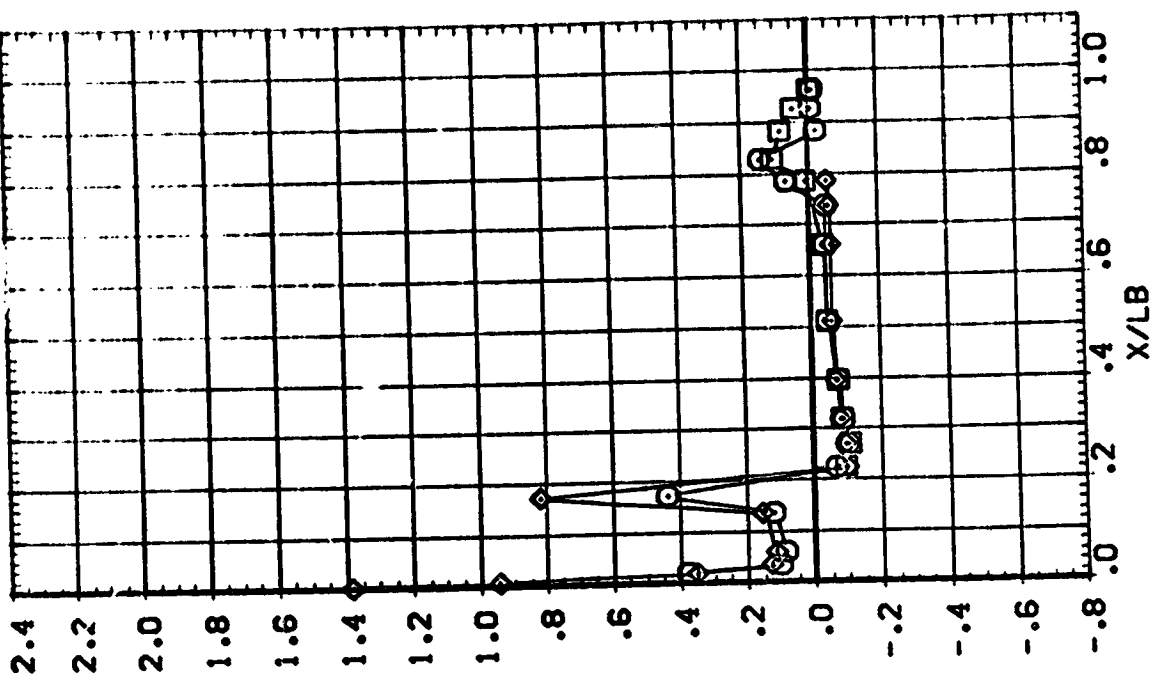
AVES 87-707 1A9 C2A - S3 + 19 ORBITER FUSELAGE (R3N3C8)

SYMBOL

150.000
165.000
180.000

BETA° MACH
-4.260 2.999
2.210

PARAMETRIC VALUES
ALPHA° 4.000 ORBIT NC
RUDDER .000 ELEVON .000
RUDDER .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

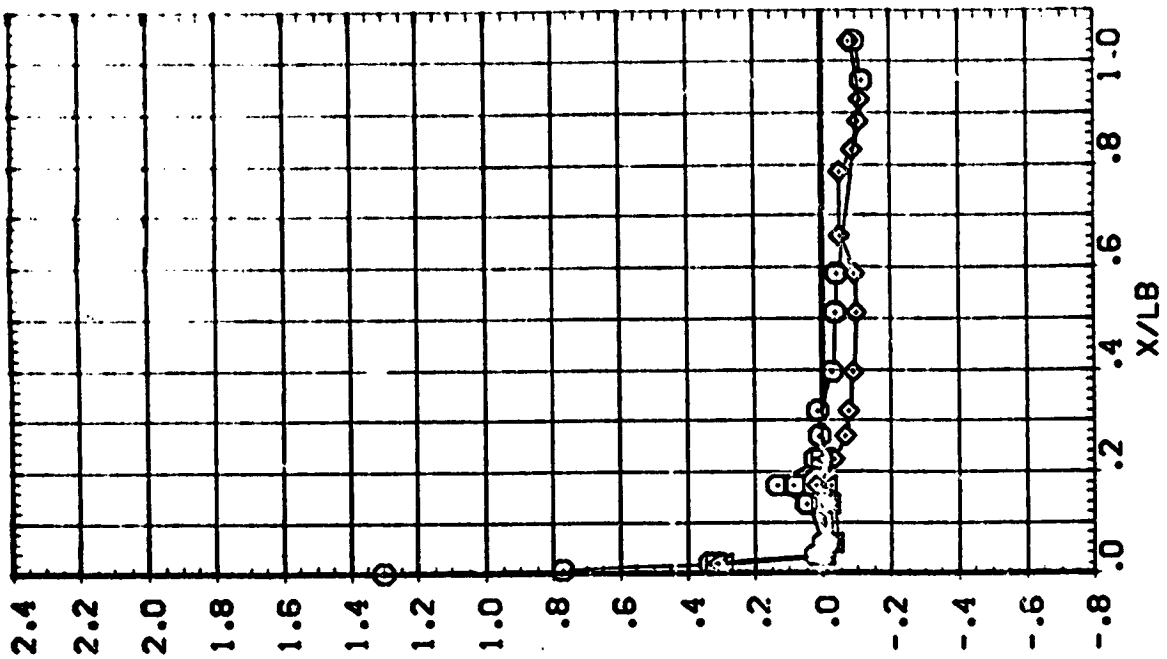
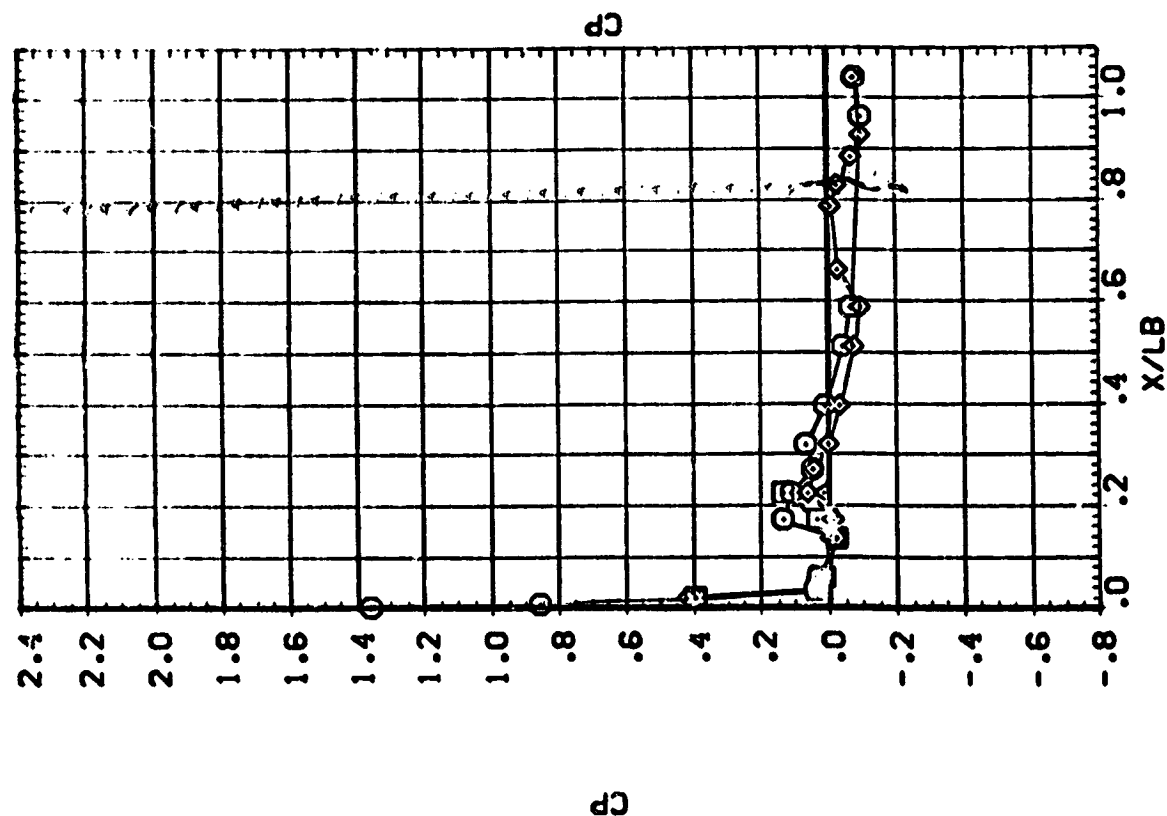
S-7C

RM: .000
20.000
40.000
55.000

BETAT MACH
4.370 2.999
8.700

PARAMETRIC VALUES
ALPHA: 59.1°
RUDDER .000
RUOTLR .000

.500
.000

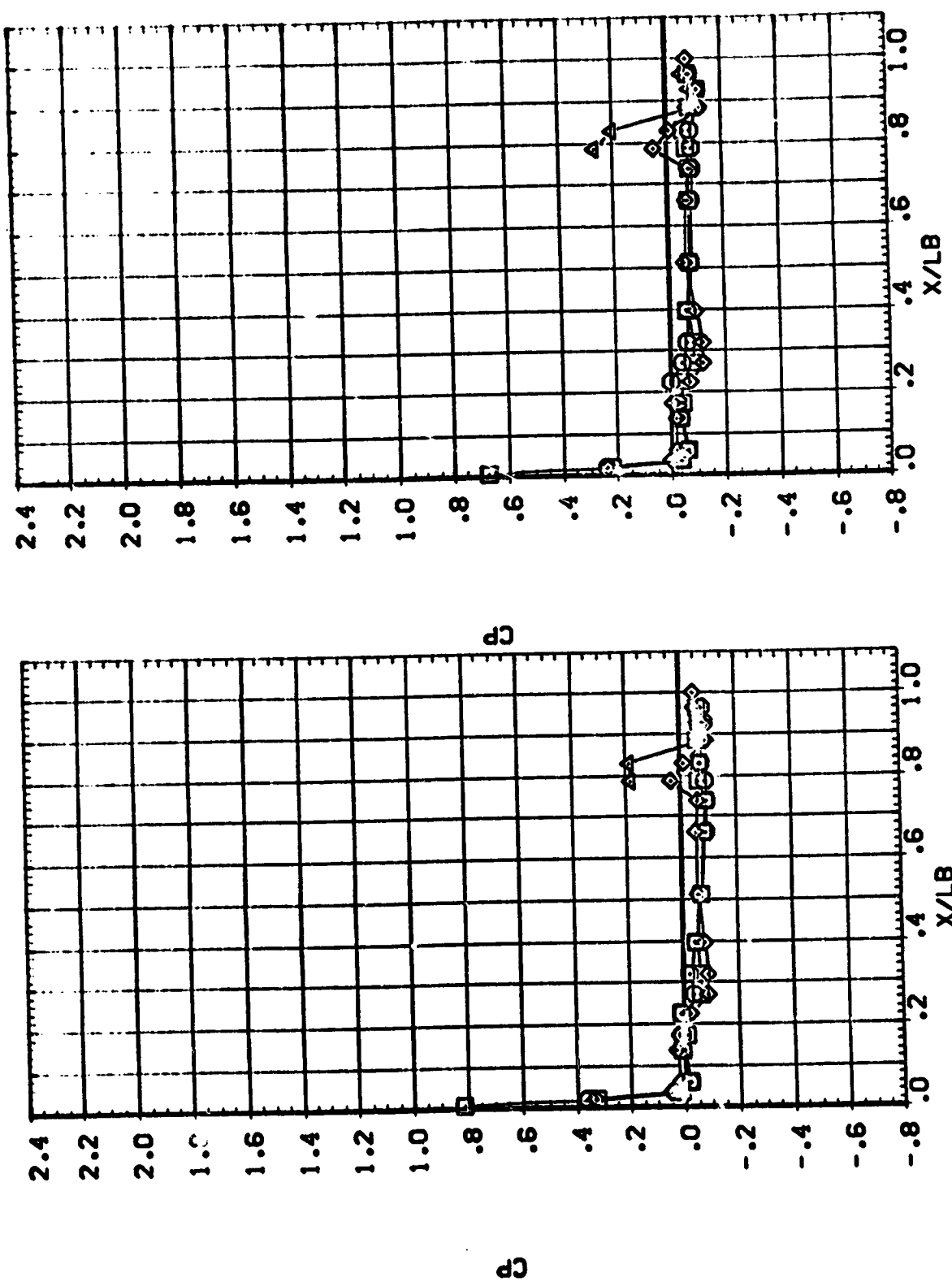


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 :A9 C2A + S3 + '9 CRBITER FUSELAGE (RBNBC8)

S-REF: 75.000
 () 82.000
 : 75.000
 : 35.000
 SE'A: 4.370
 MACH: 2.999
 0.700

PARAMETRIC VALUES
 ALPHAT: 4.000
 RUDER: .000
 RUDFLR: .000
 .000
 .000
 .000

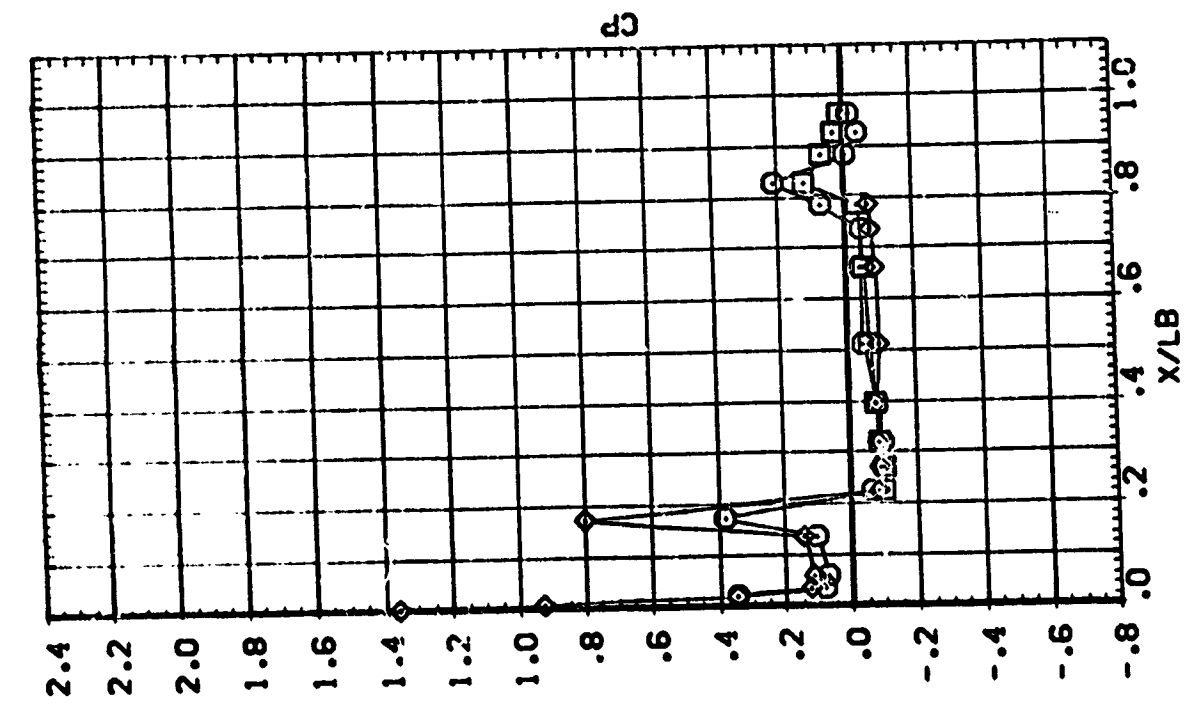
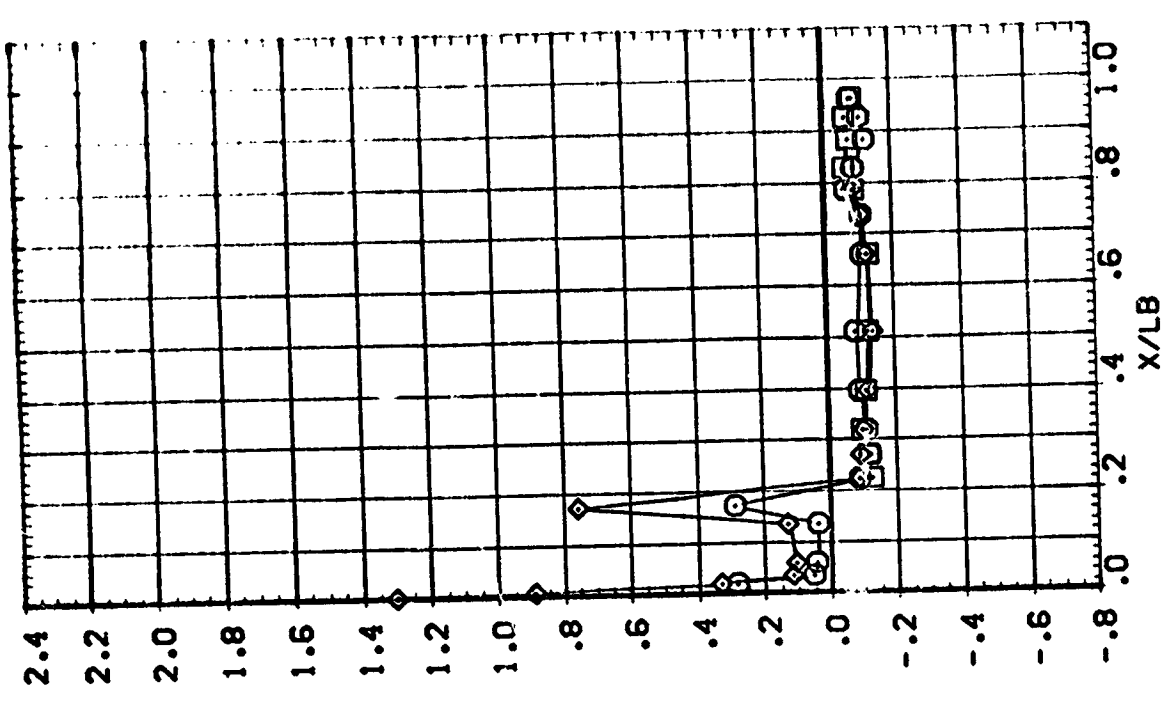


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

SYMBOL
 ()
 ◇

BETA 4.370
 8.700

ALPHAT
 RUDDER
 RUOTLR



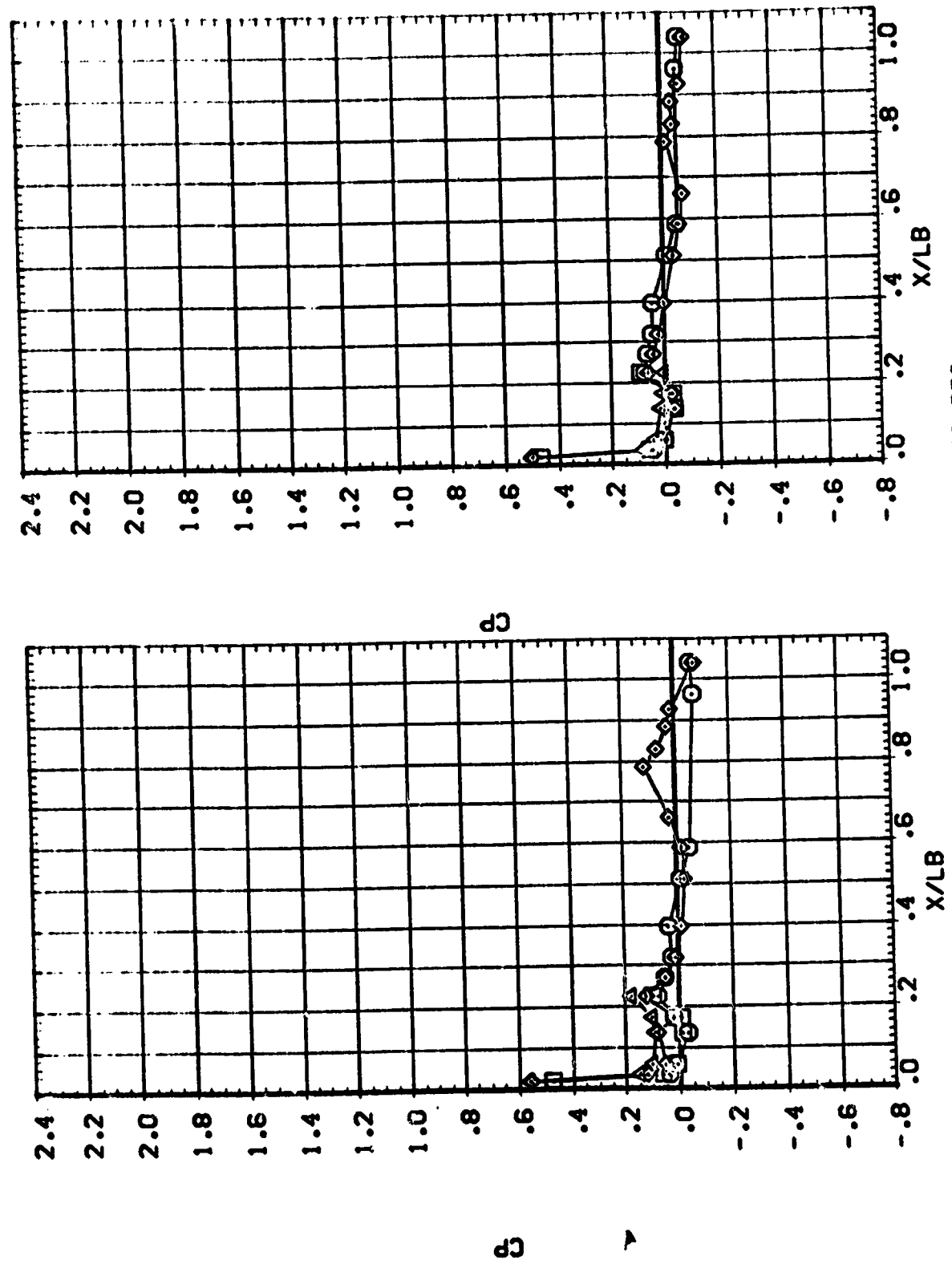
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

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AVES 87-707 :A9 C2A + S3 + T9 ORBITER FUSELAGE (RBNB08)

PARAMETRIC VALUES
 ALPHAT 4.000 09812
 RUDDER .000 ELEVEN
 RUOFLR .000

SYNCS
 () : : :
 P-1 .000 MACH 3.502
 20.000 2.760
 40.000
 55.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 IAS C2A + S3 + T9 ORBITER FUSELAGE (R8N308)

SYMBOL
O
◇
△

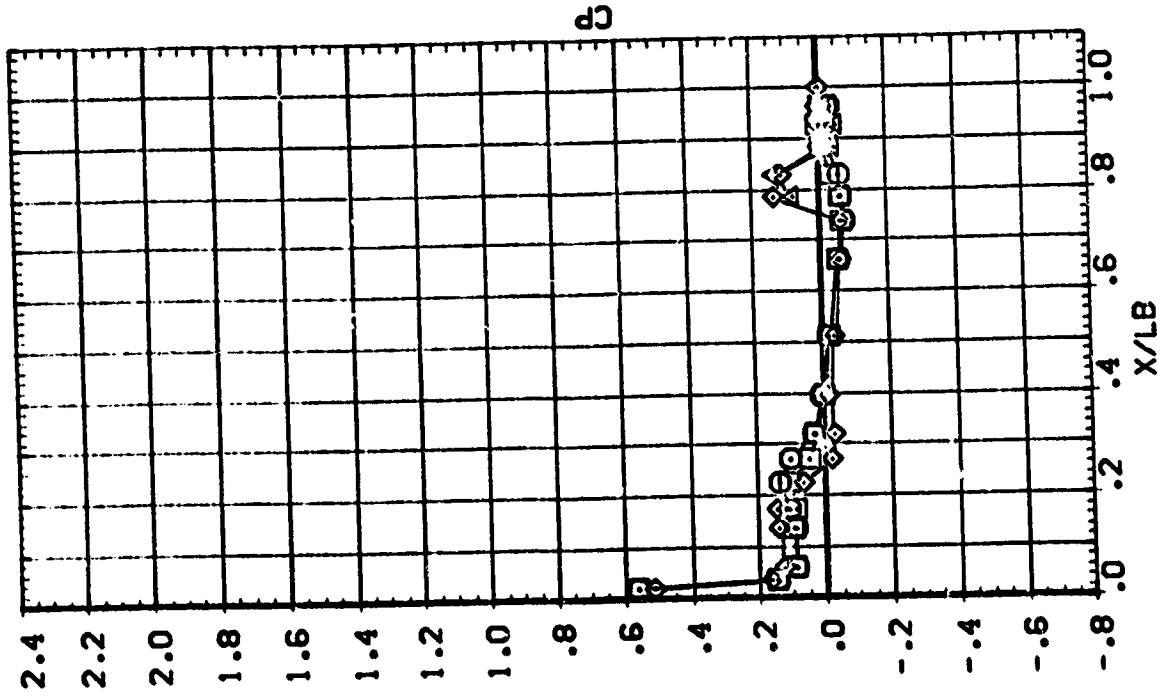
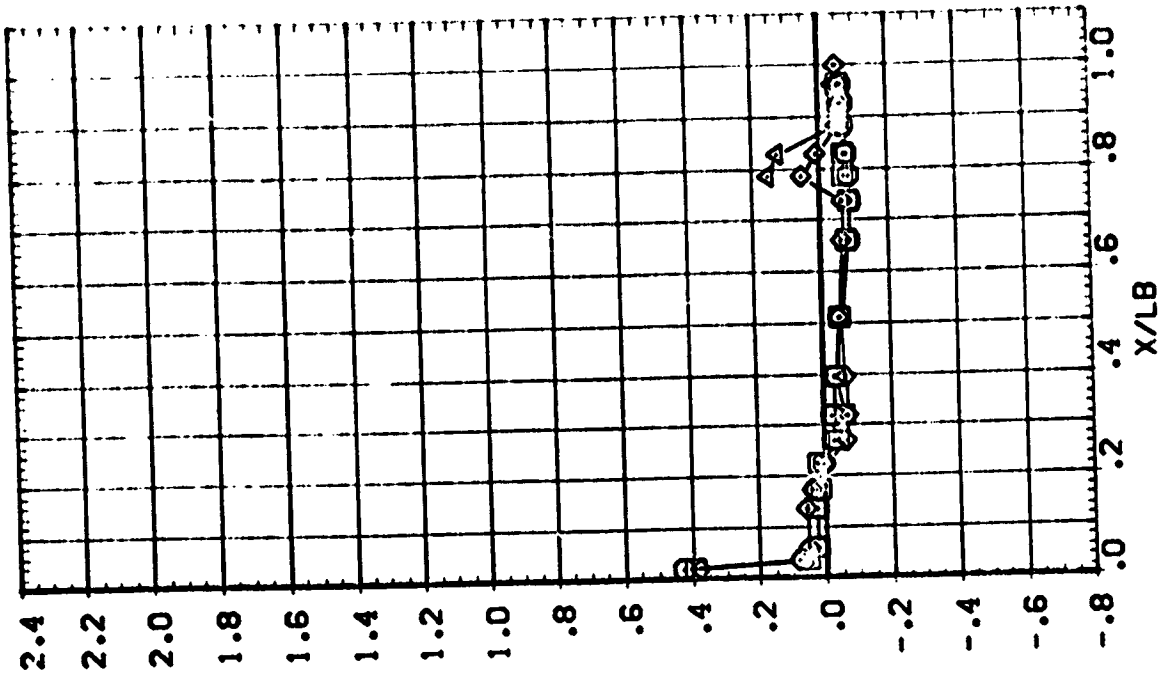
PM: 70.000
80.000
170.000
35.000

BETA: 4.33C
2.76C

MACH 3.507

PARAMETRIC VALUES
ALPHA: 4.300
RUDER .000
P.D.F.L.R .000

.500
.000

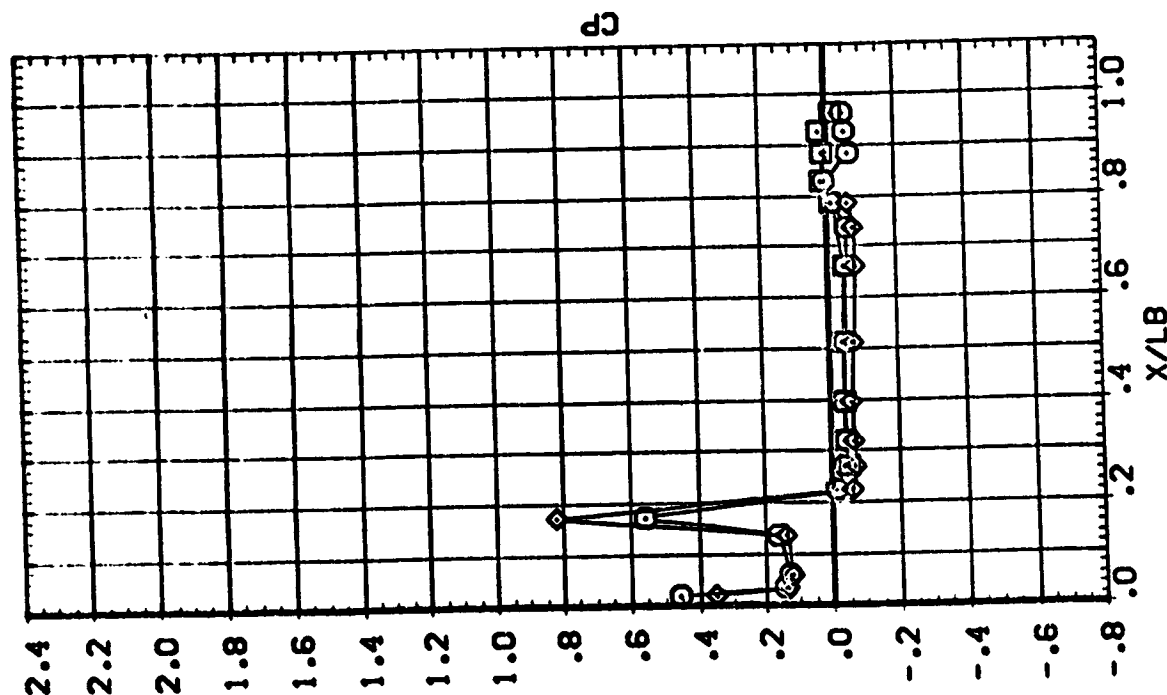
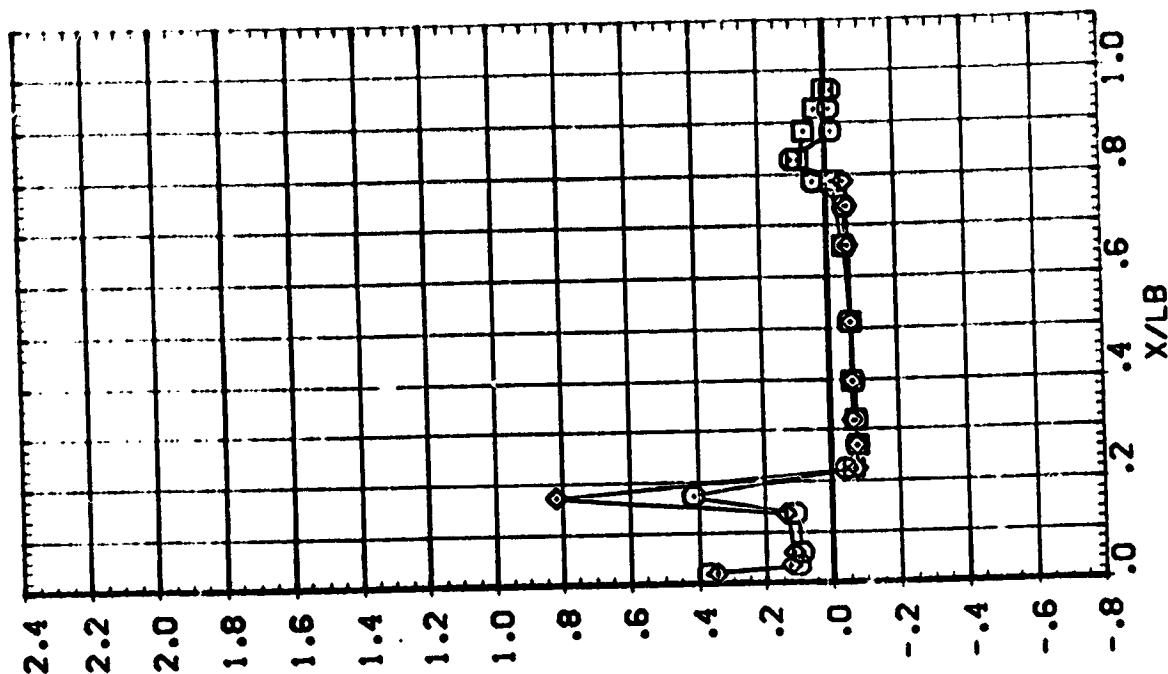


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 1A9 C2A + S3 + 19 ORBITER FUSELAGE (RBN3C8)

PARAMETRIC VALUES
 ALPHA 4.000
 RUDER .000
 ROLLER .000
 ORBITING .500
 ELEVON .000

SYNCH. RATE MACH
 50.000 3.502
 65.000 2.760
 80.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 1A9 32A - S3 - 19 ORBITER FUSELAGE (R3V3C8)

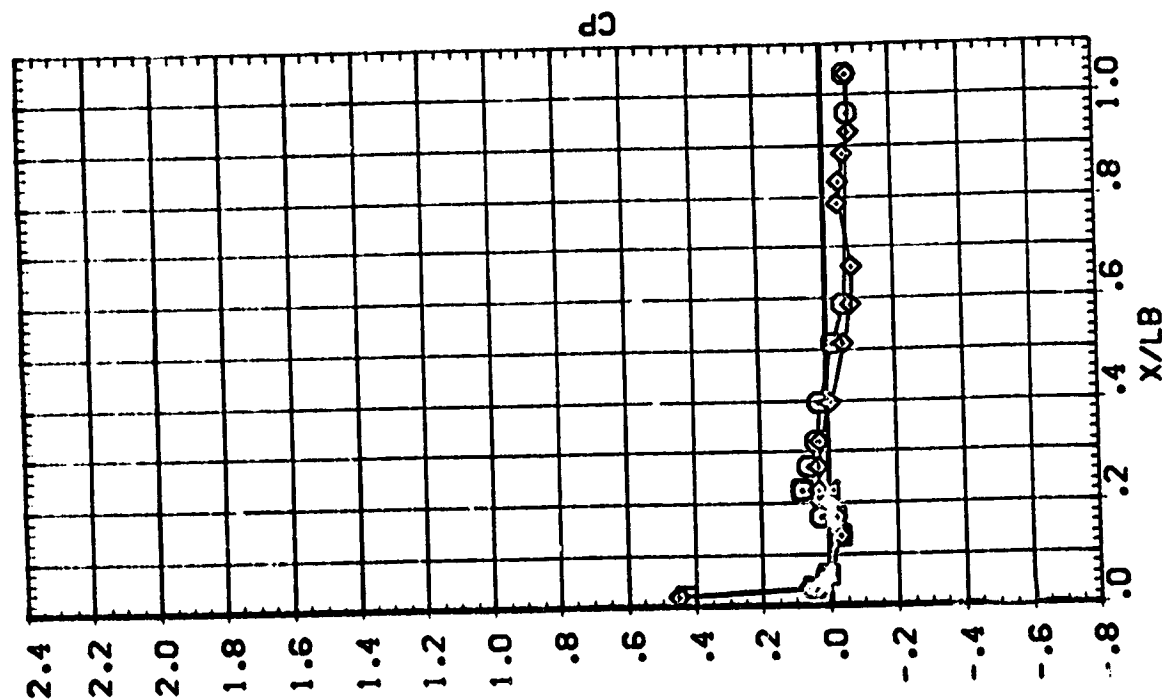
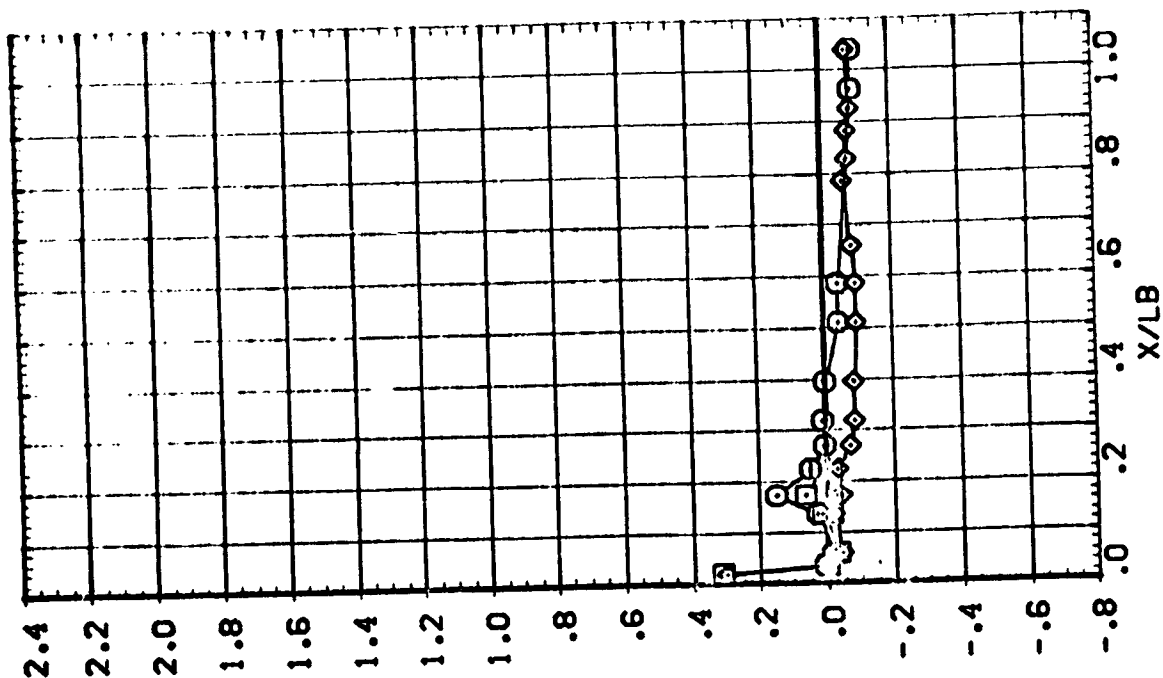
SYMBOL

0.000
70.000
40.000
55.000

ORBITAT
4.160
8.860

MACH
3.502

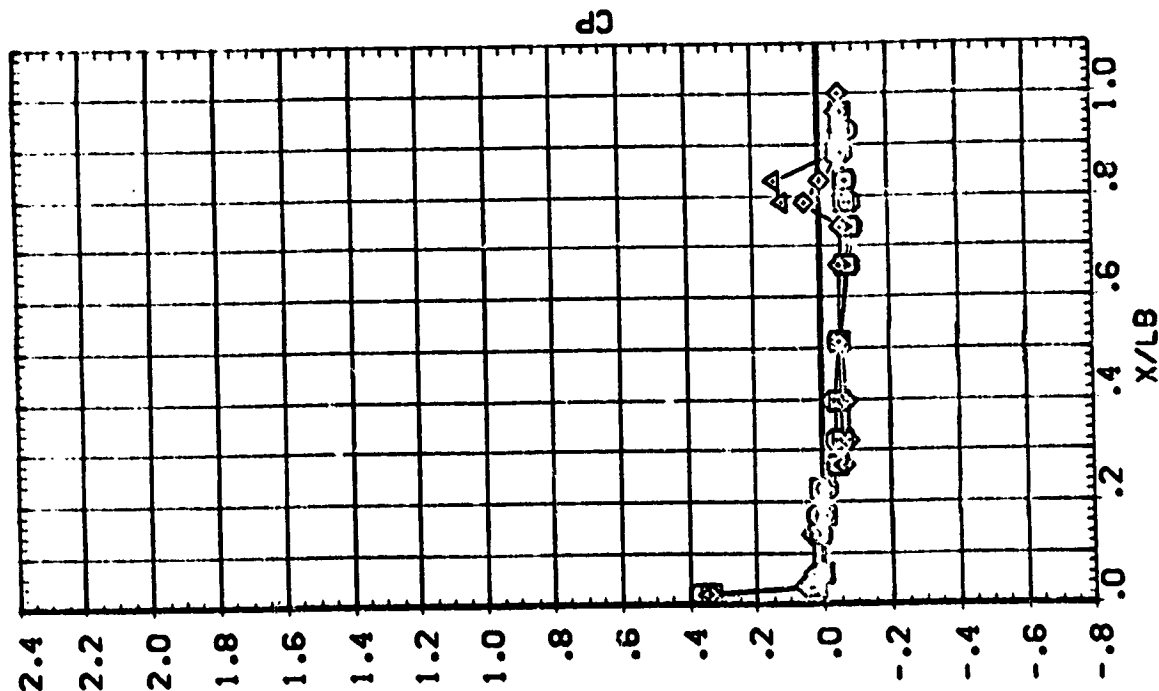
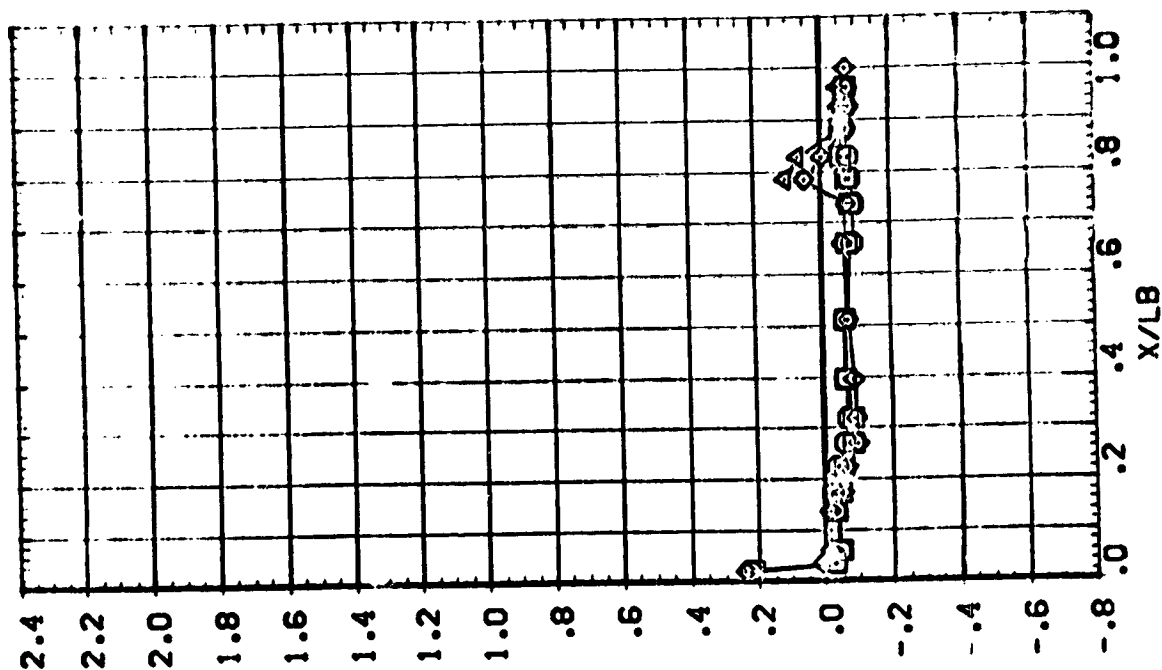
PARAMETRIC VALUES
ALPHA
4.000
RADIUS
.000
ELEVATION
.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 1A9 02A - 53 - '9 ORBITER FUSELAGE (R3N308)

SYMC	DEL	BETAT	WACH	PARAMETRIC VALUES
1	70.000	4.460	3.507	ALPHA
2	90.000	0.860		ROTOR
3	170.000			ROTOR
4	135.000			
				4.000
				0.000
				0.000
				0.000

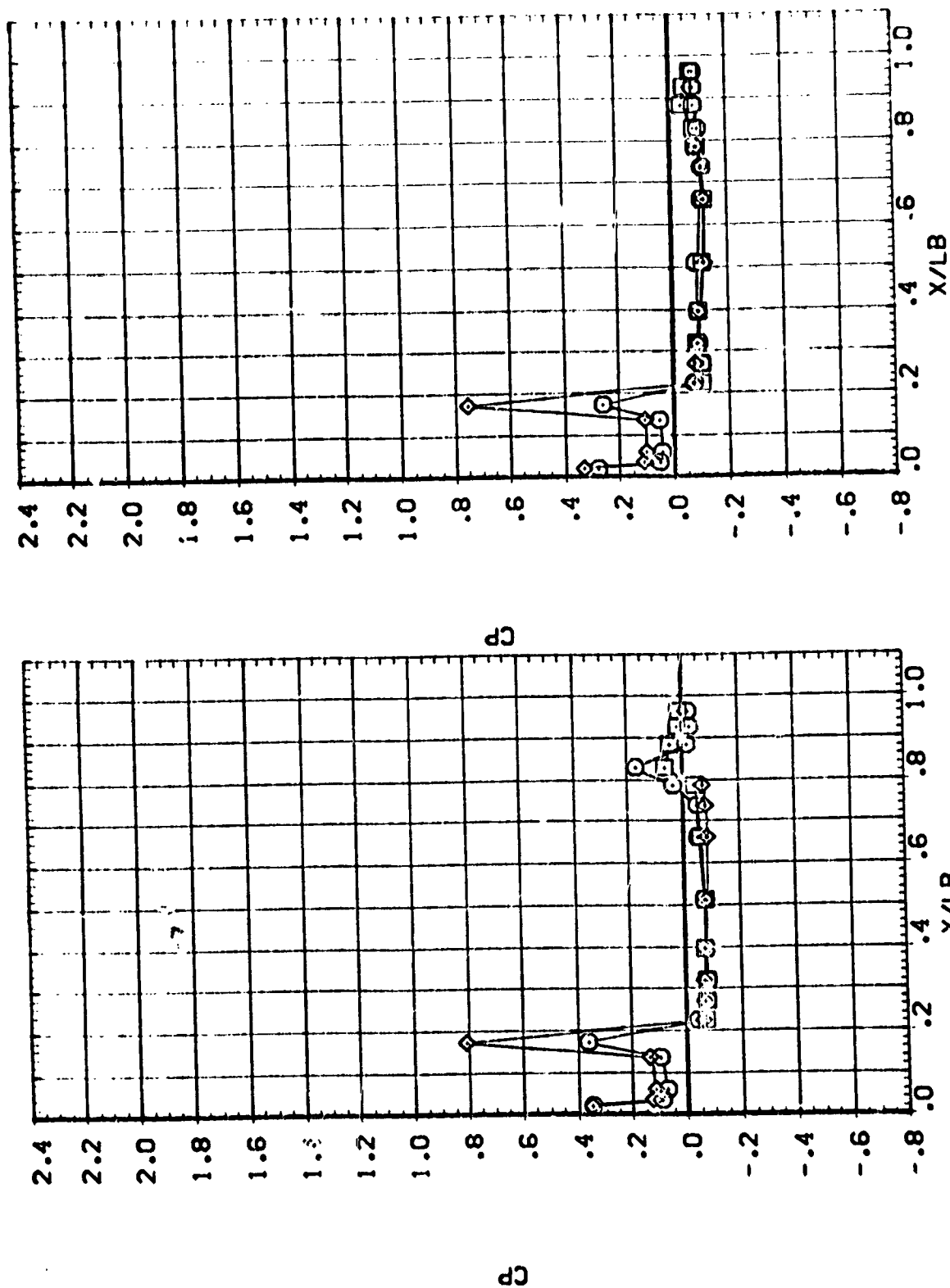


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 :A9 C2A + S3 + 19 CRBITER FUSELAGE (RBN308)

SYSC. P-1 BE-A* MAC-
 150.000 4.460 3.502
 165.000 0.860
 180.000

PARAMETRIC VALUES
 ALPHAT 4.000 999.00
 RUDDER 1.000 1.000
 RUFLR 1.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 :A9 C2A + S3 + 19 CRB:TER FUSELAGE (RBN3:0)

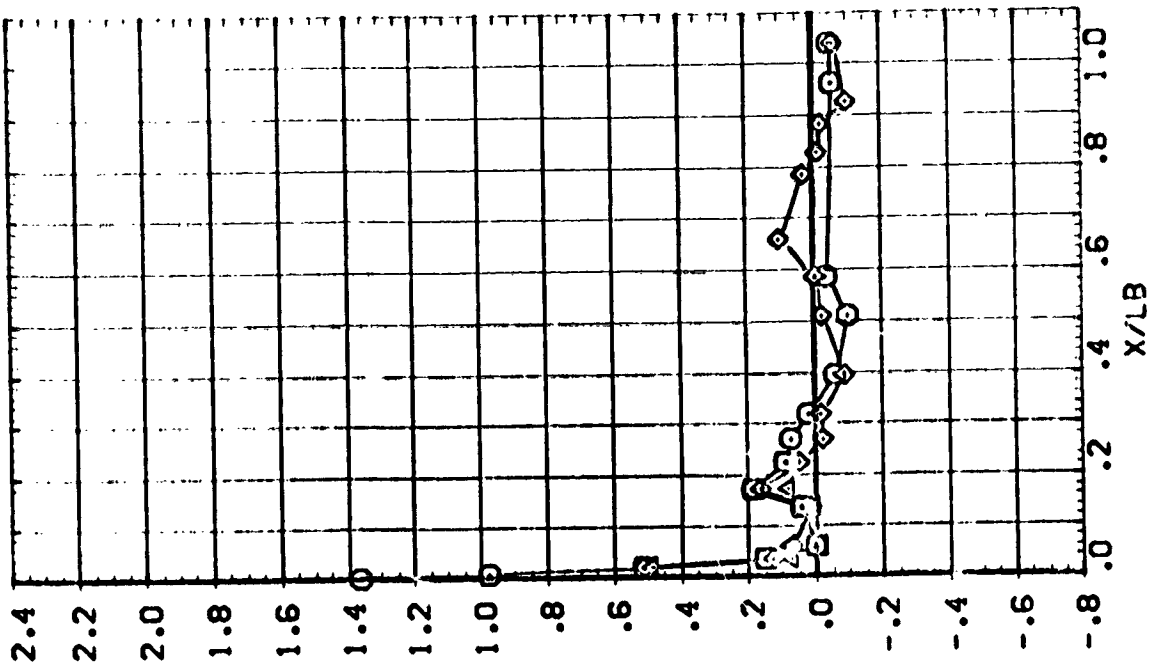
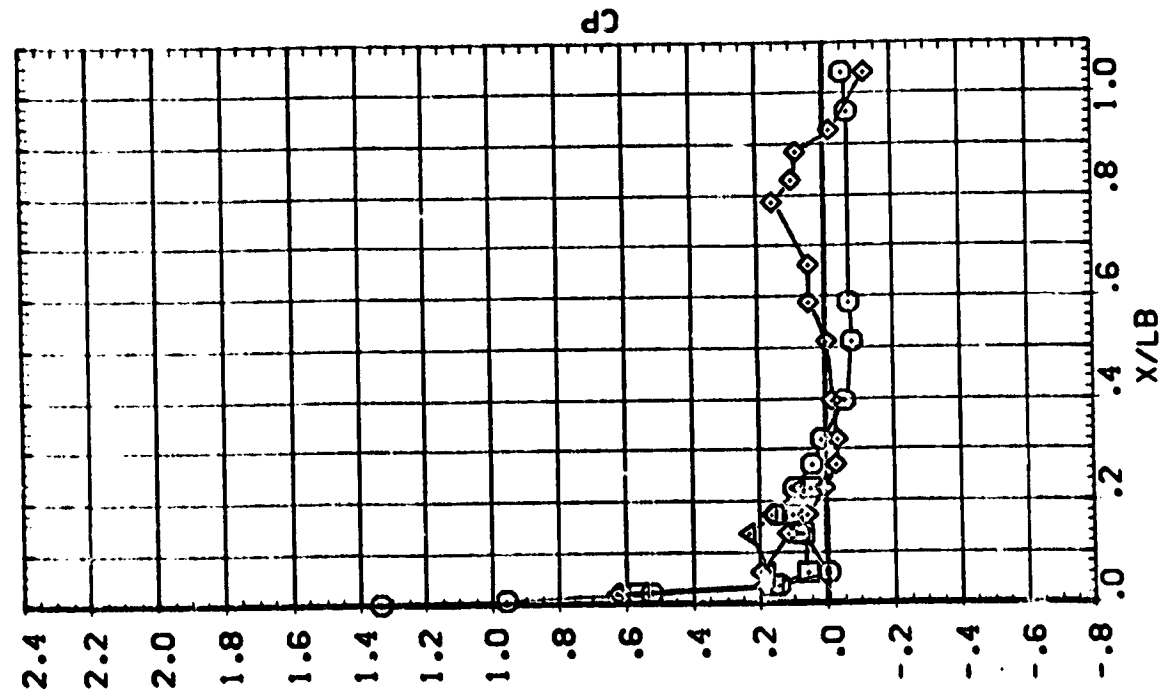
SYSC
○
◇
△

Q-1
.000
20.000
40.000
55.000

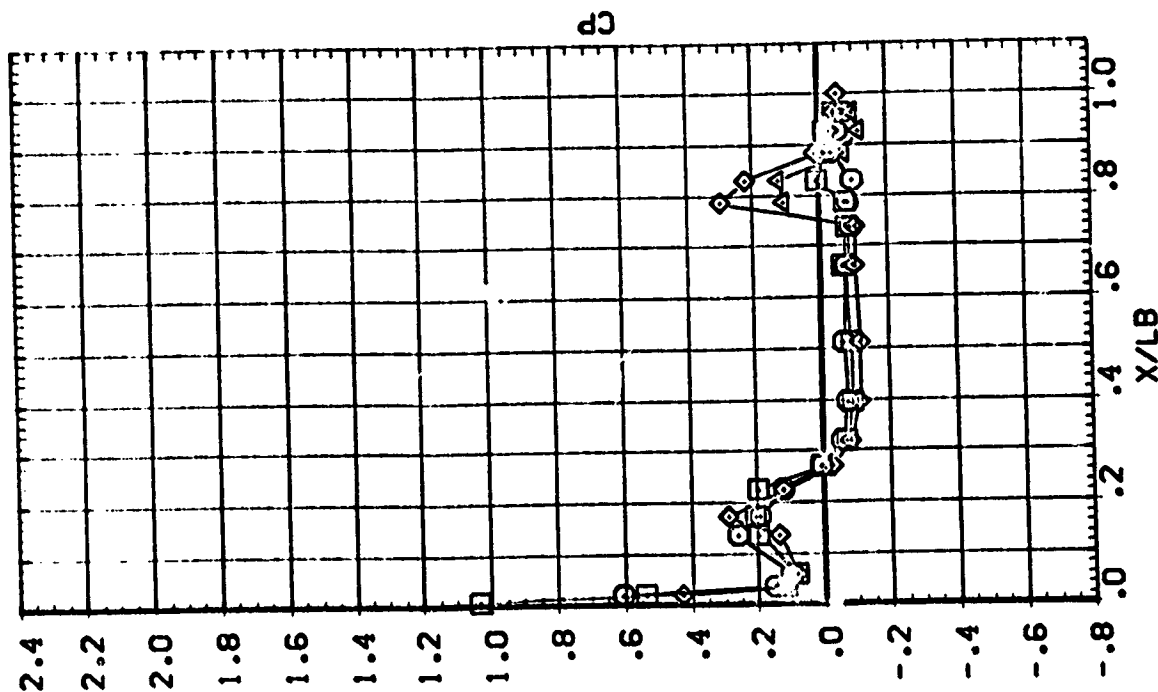
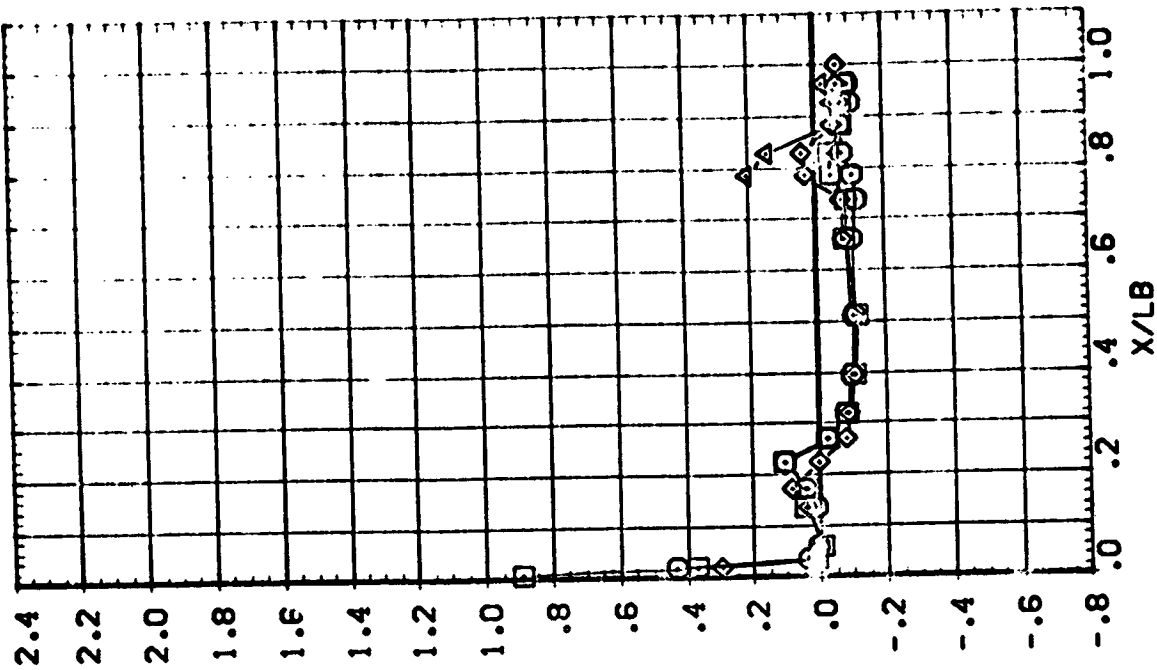
BETAT
-4.170
2.180

MAC-
2.498

PARAMETRIC VALUES
ALPHA 8.000 999.0
RUMER .000
RUMER .000



LONGITUDINAL DISTRIBUTION OF CRB:TER FUSELAGE PRESSURES



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 :A9 C2A - S3 + 19 ORBITER FUSELAGE (RBNB10)

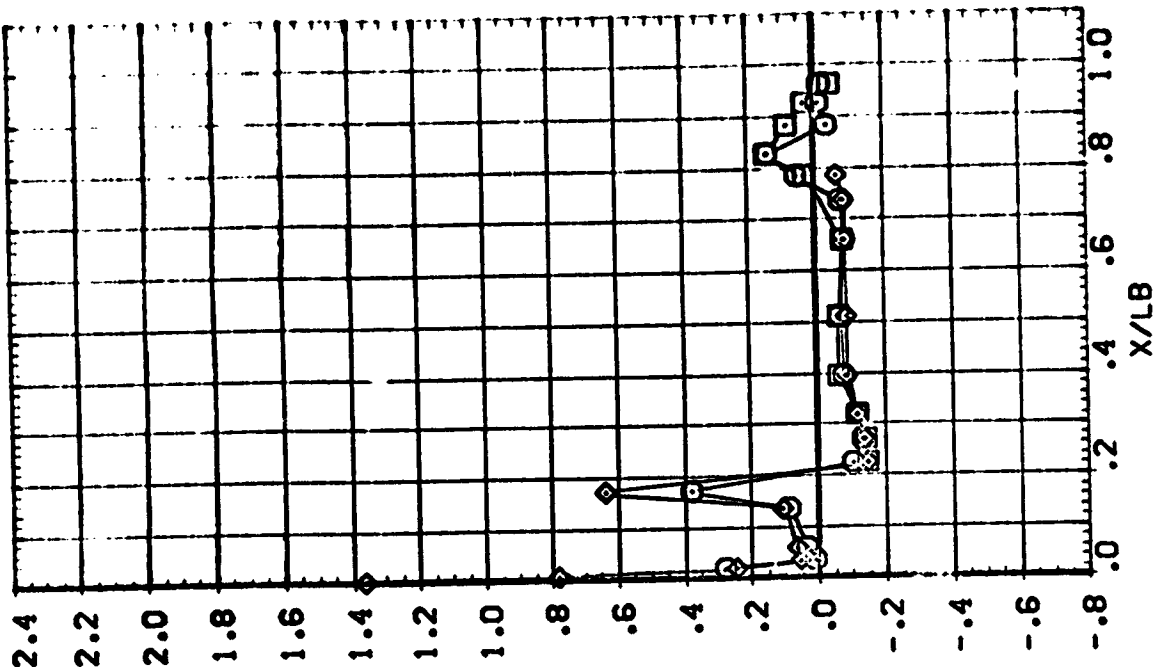
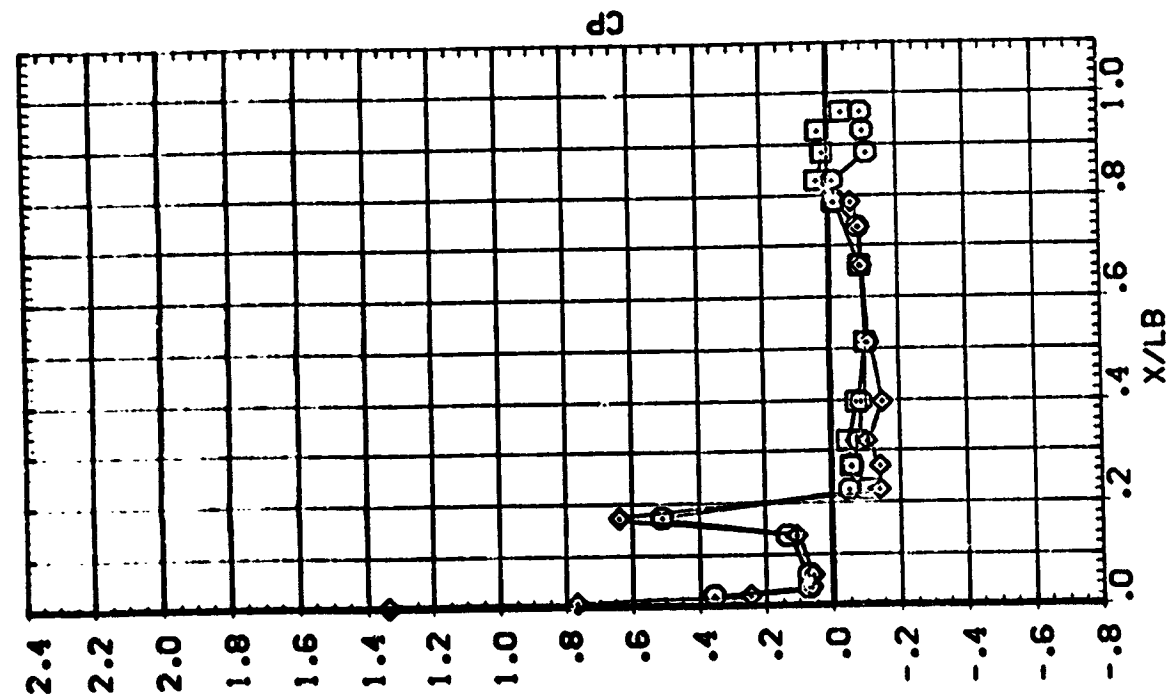
SWBC
C10
C10

PA: 150.000
165.000
180.000

BE "A" WAC-
-4.75 2.498
2.80

PARAMETRIC VALUES
ALPHAT 8.000 999.5
RUDDER .0000 ELEVON
RUJFLR .000

.500
1.000

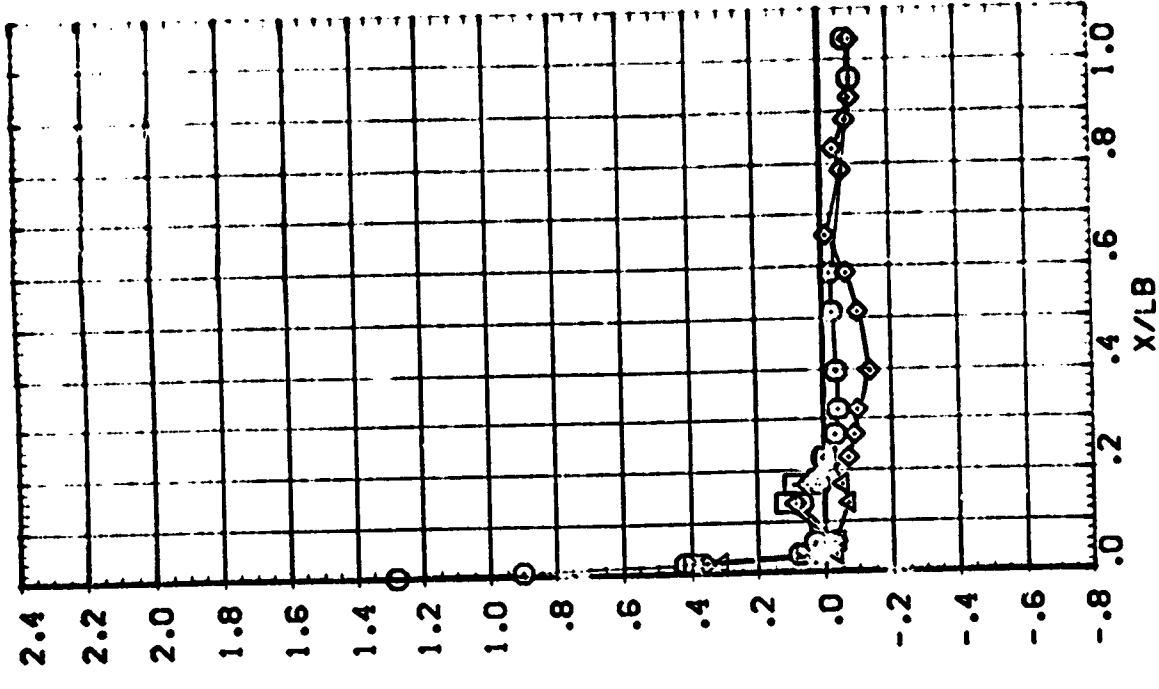
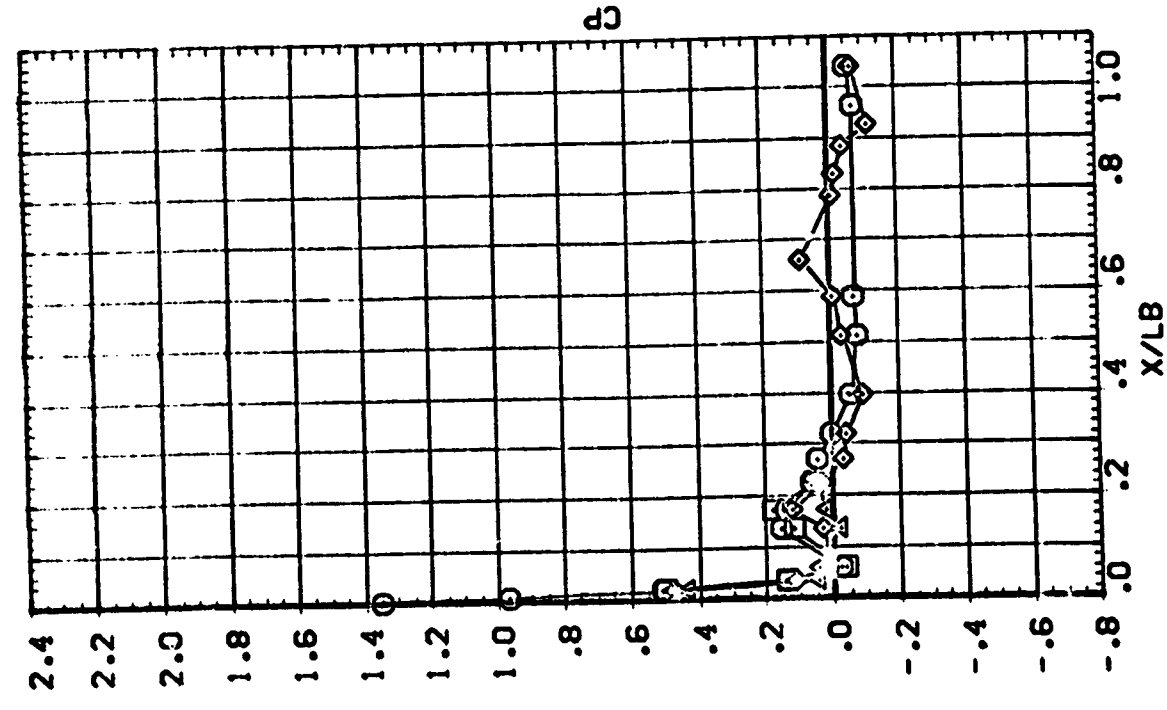


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

11 00 0

SYNCR. 0.000 20.000 40.000 55.000
 BETAT 4.370 8.580
 WACH 2.499

PARAMETRIC VALUES
 ALPHA 0.000 0.000 0.000
 R200R 0.000 0.000 0.000
 R200LR 0.000 0.000 0.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

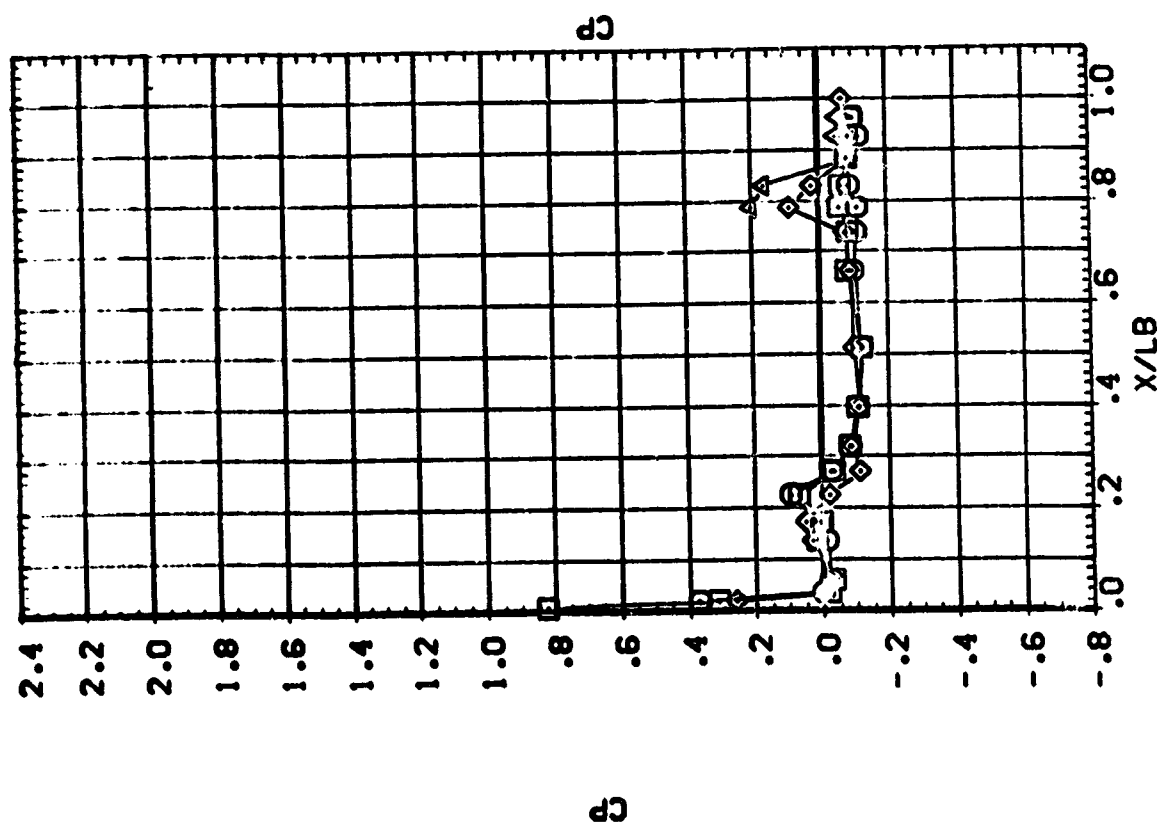
REF ID: A66011

SYMBOL
 X
 O
 Δ

WIND
 75.000
 95.000
 170.000
 135.000

BEAT
 4.370
 8.560

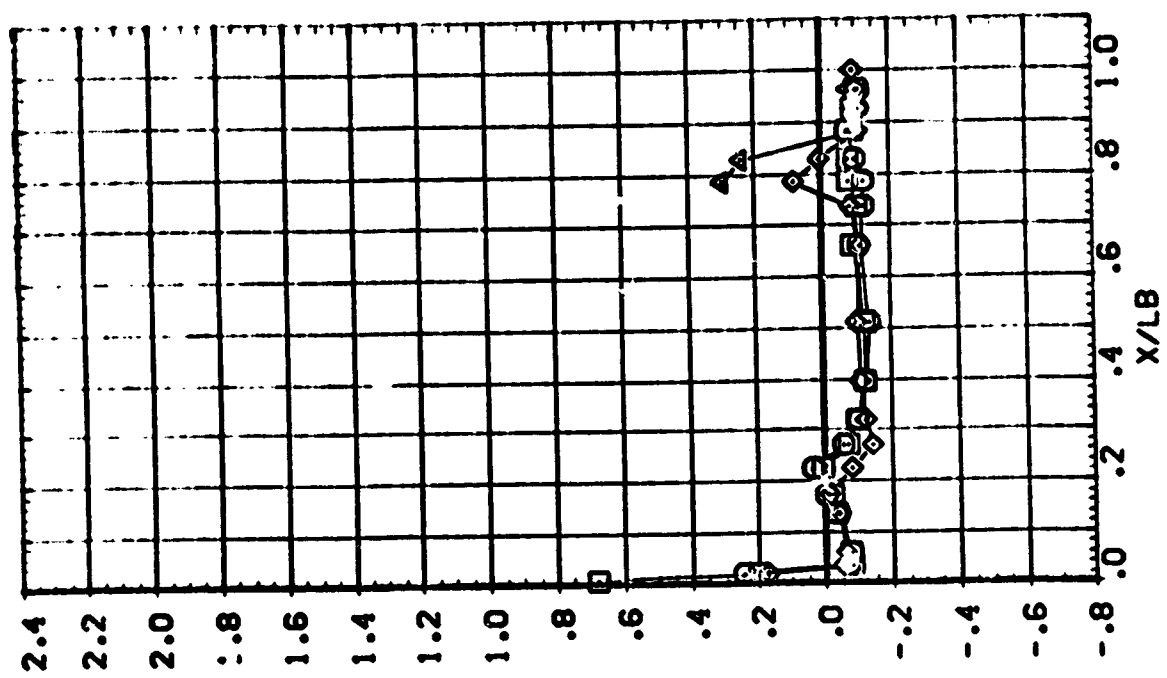
WAVE
 2.450



WAVE
 2.450

BEAT
 4.370
 8.560

WIND
 75.000
 95.000
 170.000
 135.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

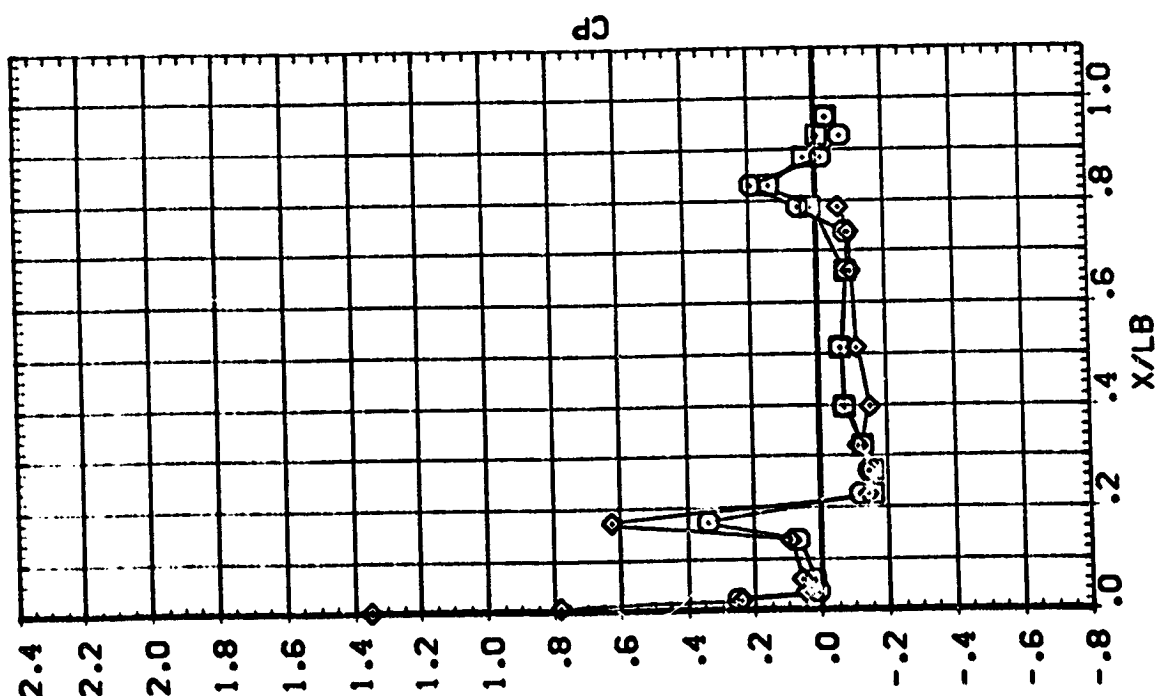
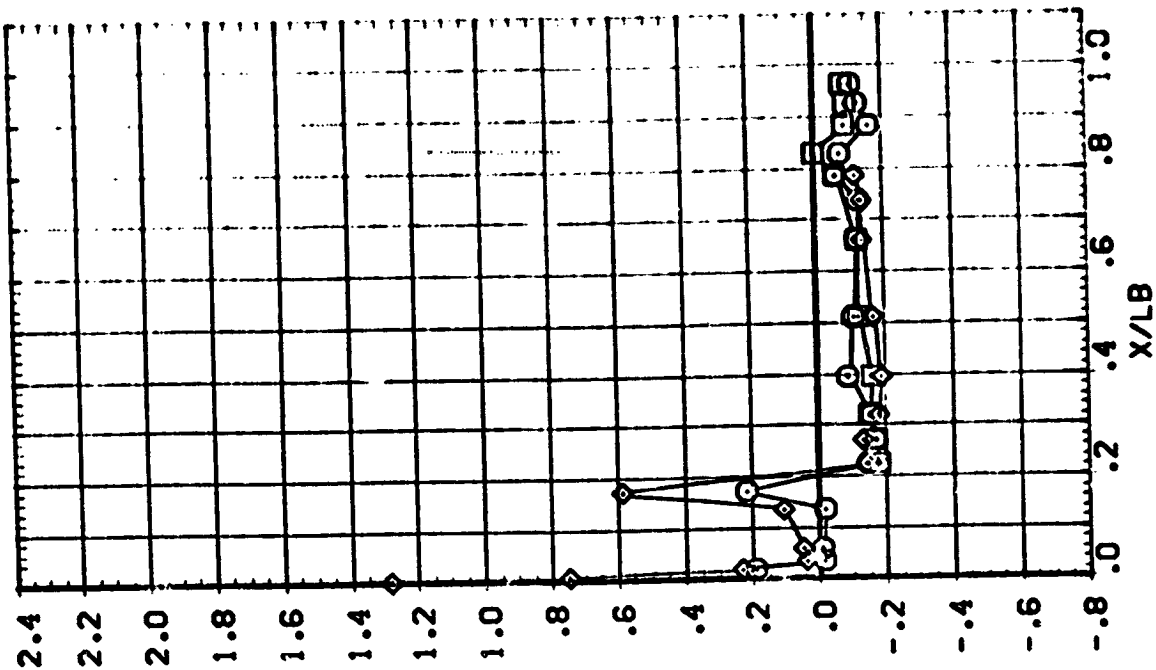
SYNCH
□ □ □

PH: 50.000
:65.000
:80.000

BETAT 4.320
8.580

MACH 2.498

PARAMETRIC VALUES
ALPHAT 0.000 999.0
RUDER 0.000 0.0
RUDFLR 0.000 0.0

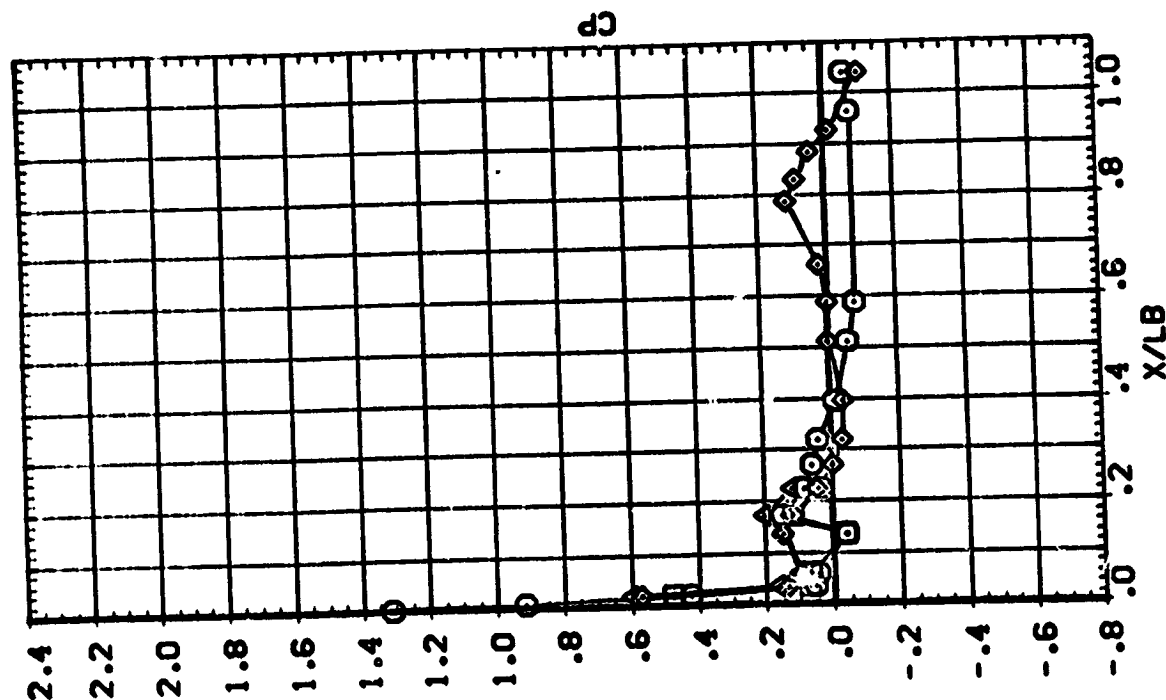
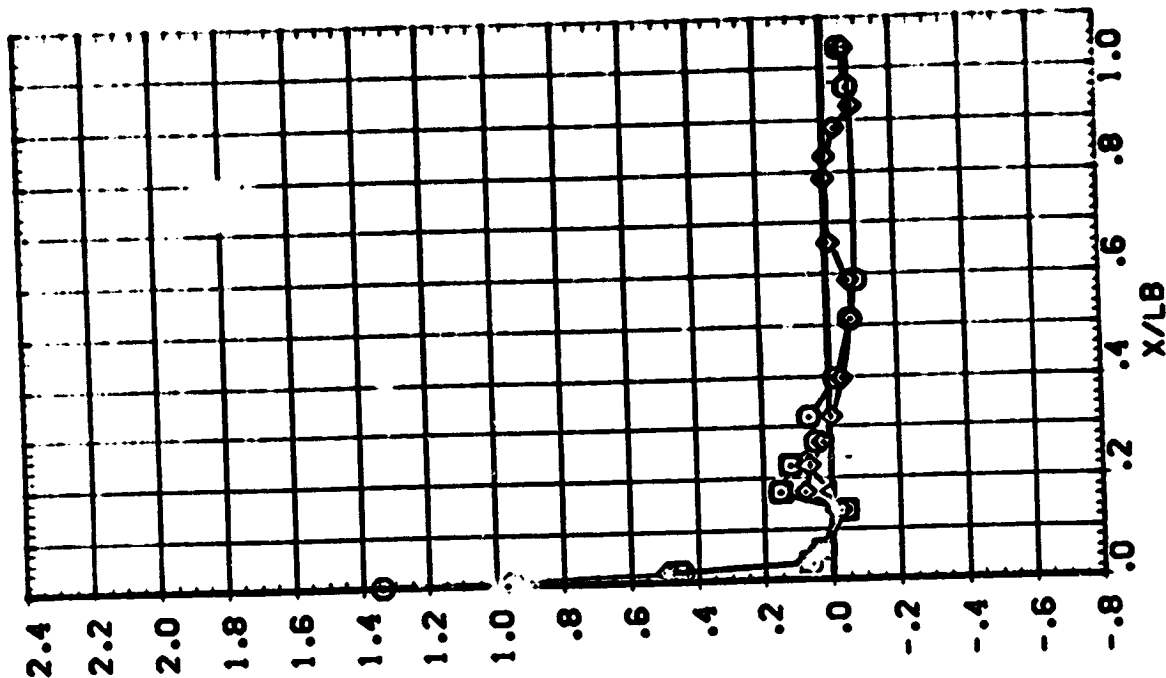


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

03/3/00

SYMBOL	PHI	BETA	MACH
0	.000	-4.240	2.999
1	20.000	2.230	
2	40.000		
3	55.000		

SECRET
UNCLASSIFIED
DATE 01-01-00
BY 1045
ALB-A-1

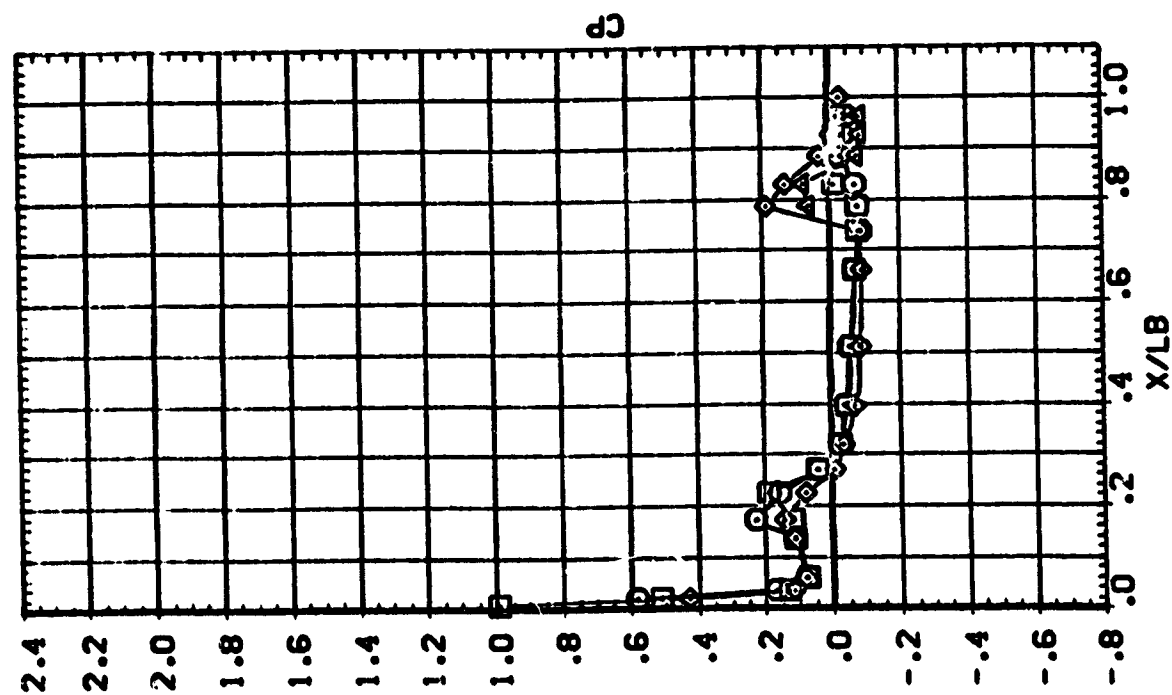
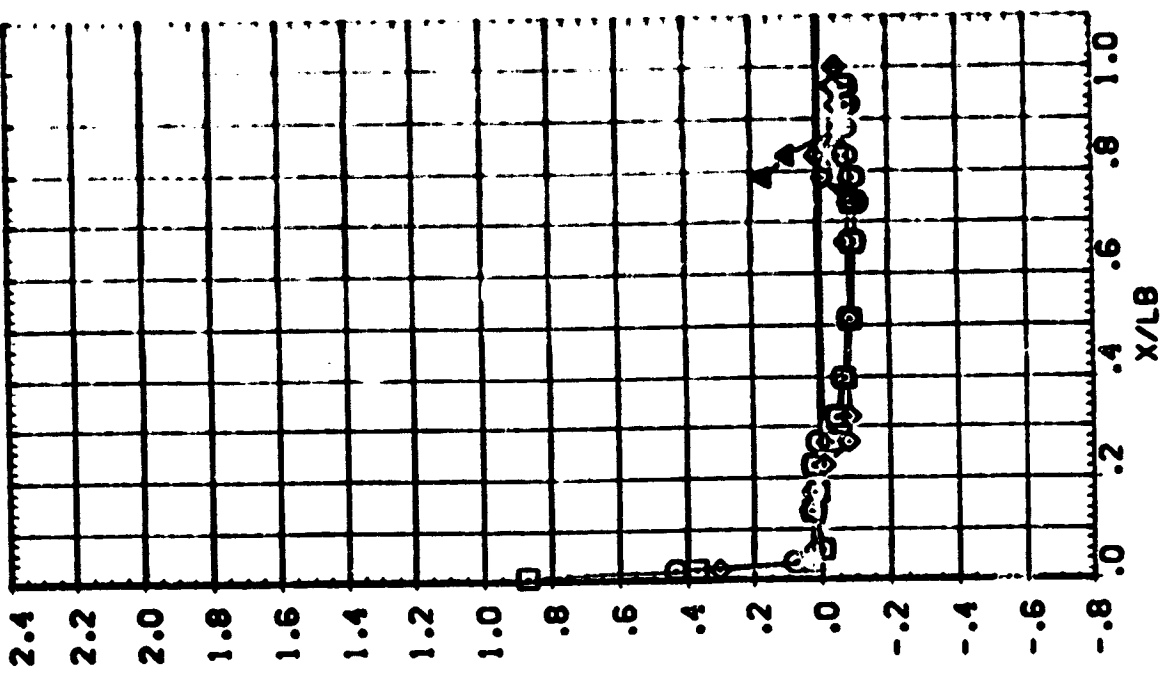


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

0.0018
0.0018
0.0018
0.0018

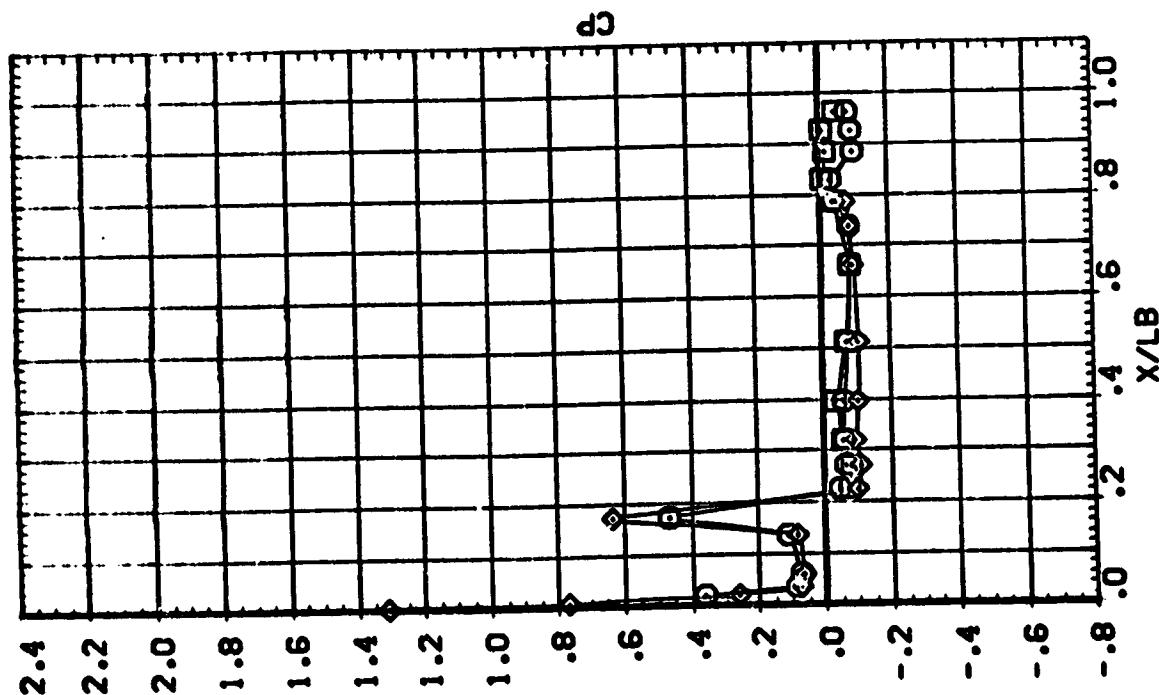
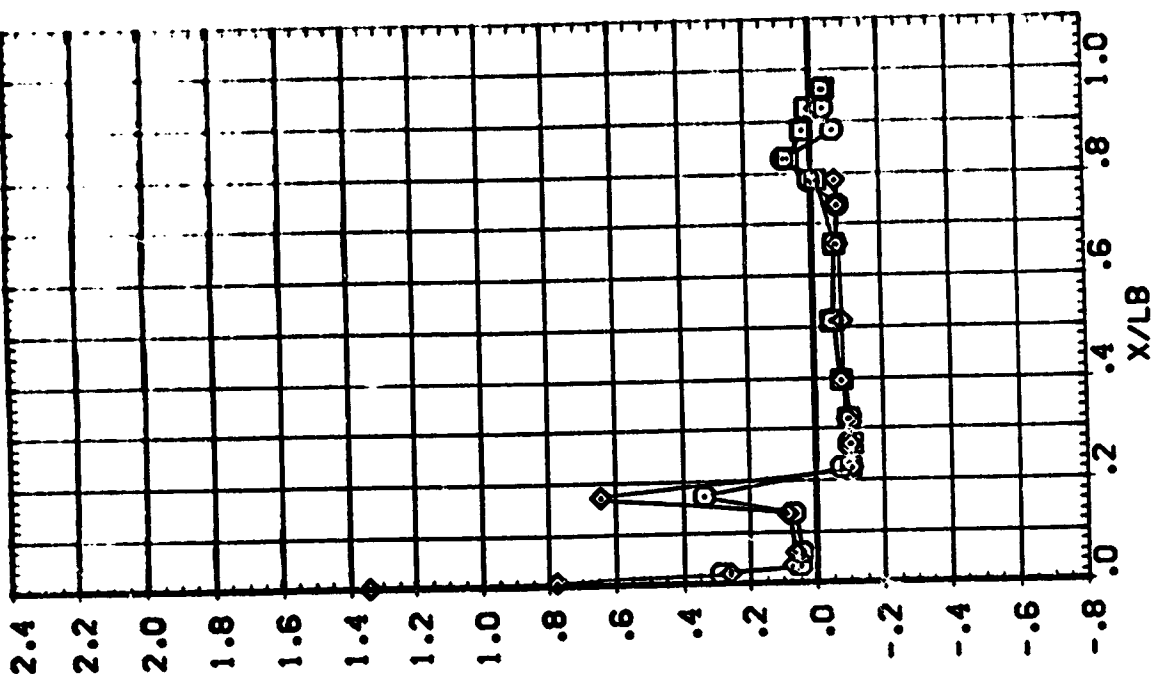
0.0018
0.0018
0.0018
0.0018

0.0018
0.0018
0.0018
0.0018



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

PARAMETRIC VALUES	ALPHAT	99:NC	99:LE
ALPHAT	0.000	0.000	0.000
99:NC	0.000	0.000	0.000
99:LE	0.000	0.000	0.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

SYMBOL
 ()
 O
 X

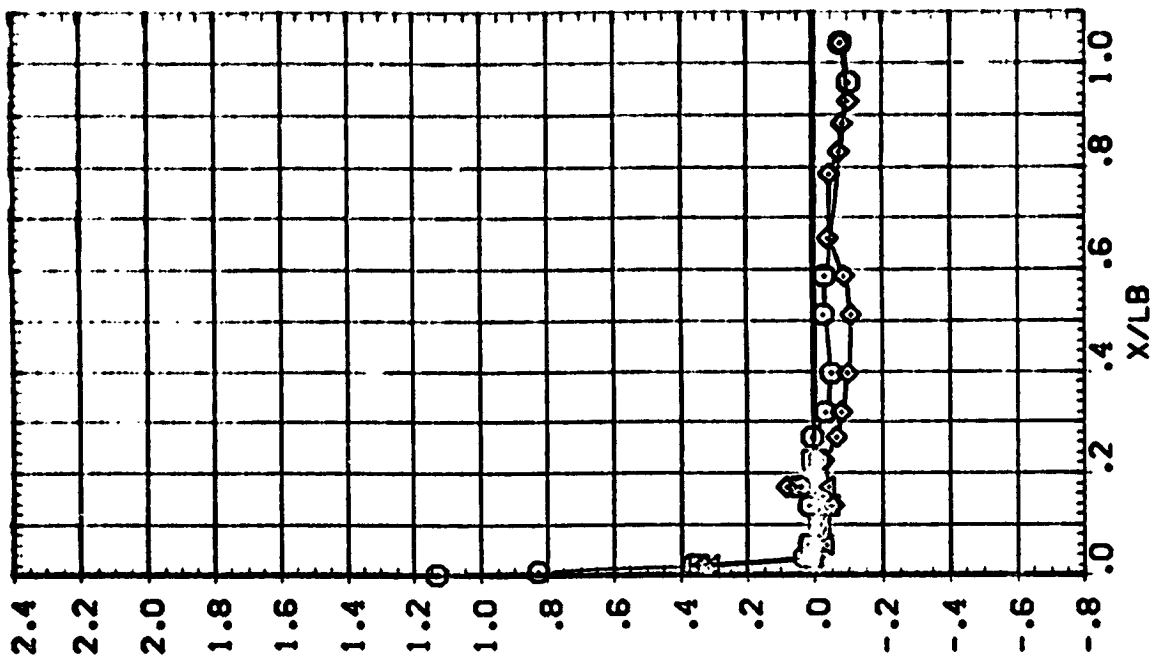
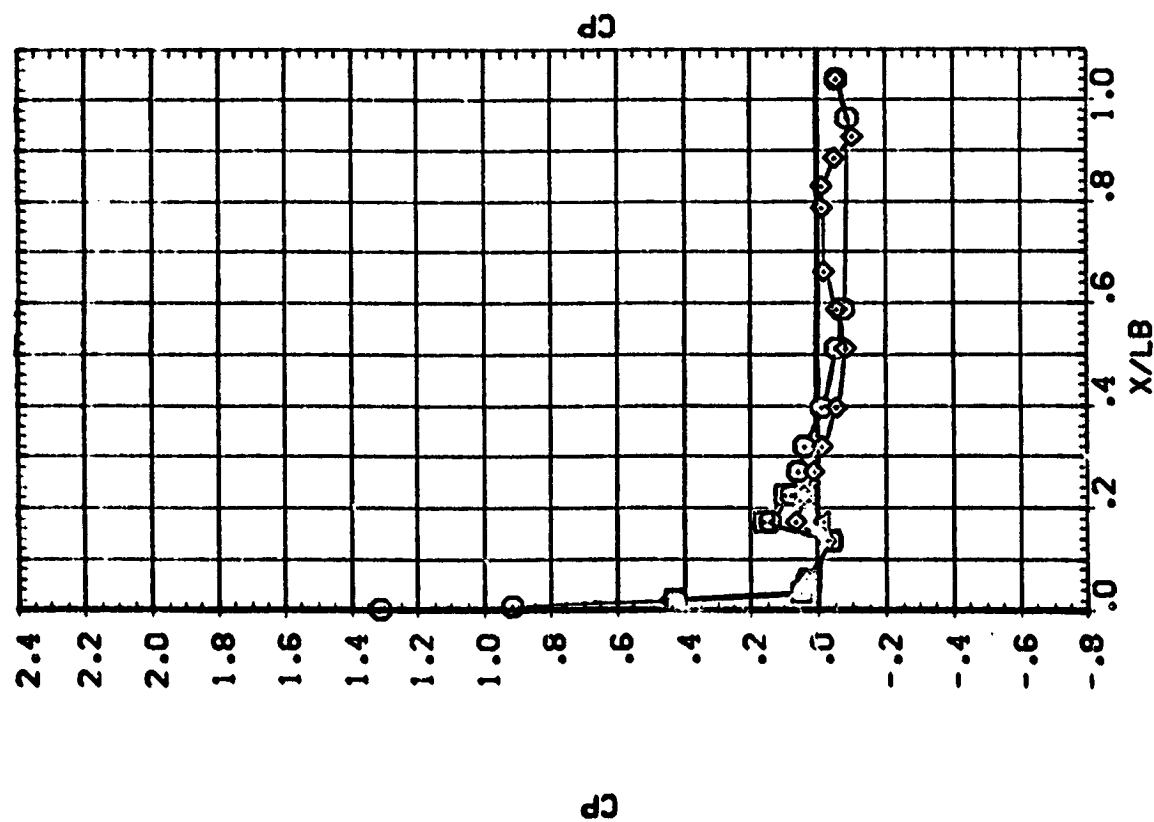
PA: .0000
 20.0000
 40.0000
 55.0000

BETAT 4.400
 8.740

MACH 2.999

PARAMETRIC VALUES
 ALPHA' 0.000 0.001C
 RJOER .000 ELEVN
 RJOFLR .000

.500
 .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 87-707 1A9 C2A - S3 + 19 ORBITER FUSELAGE (R3N3:C)

SYMBOL
 ○
 ◇
 △

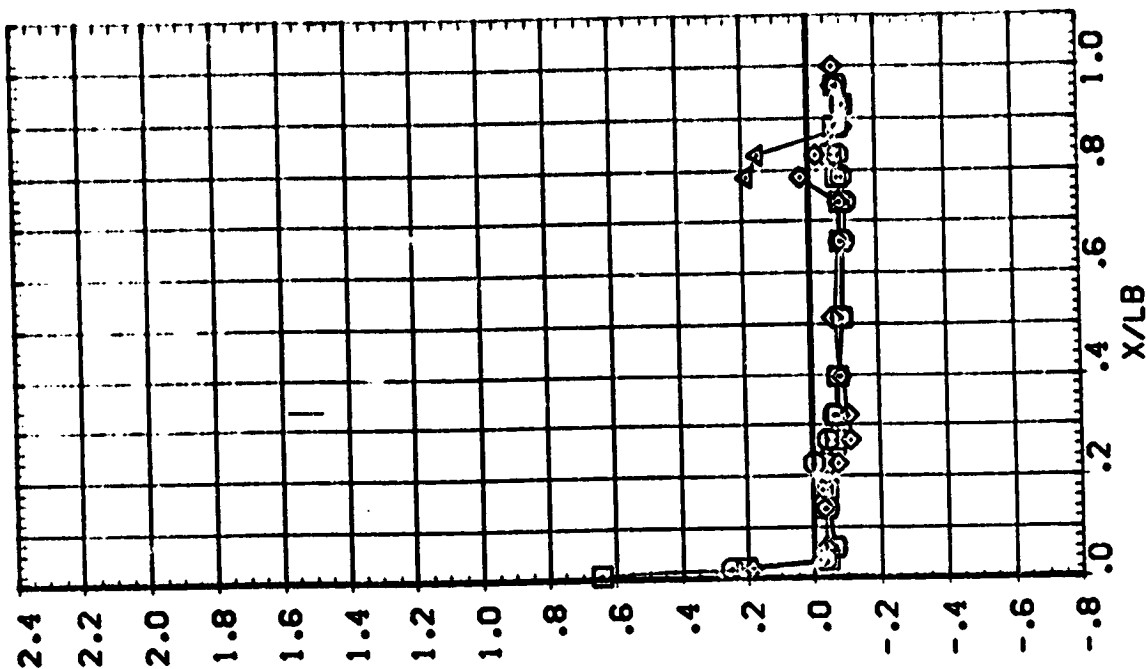
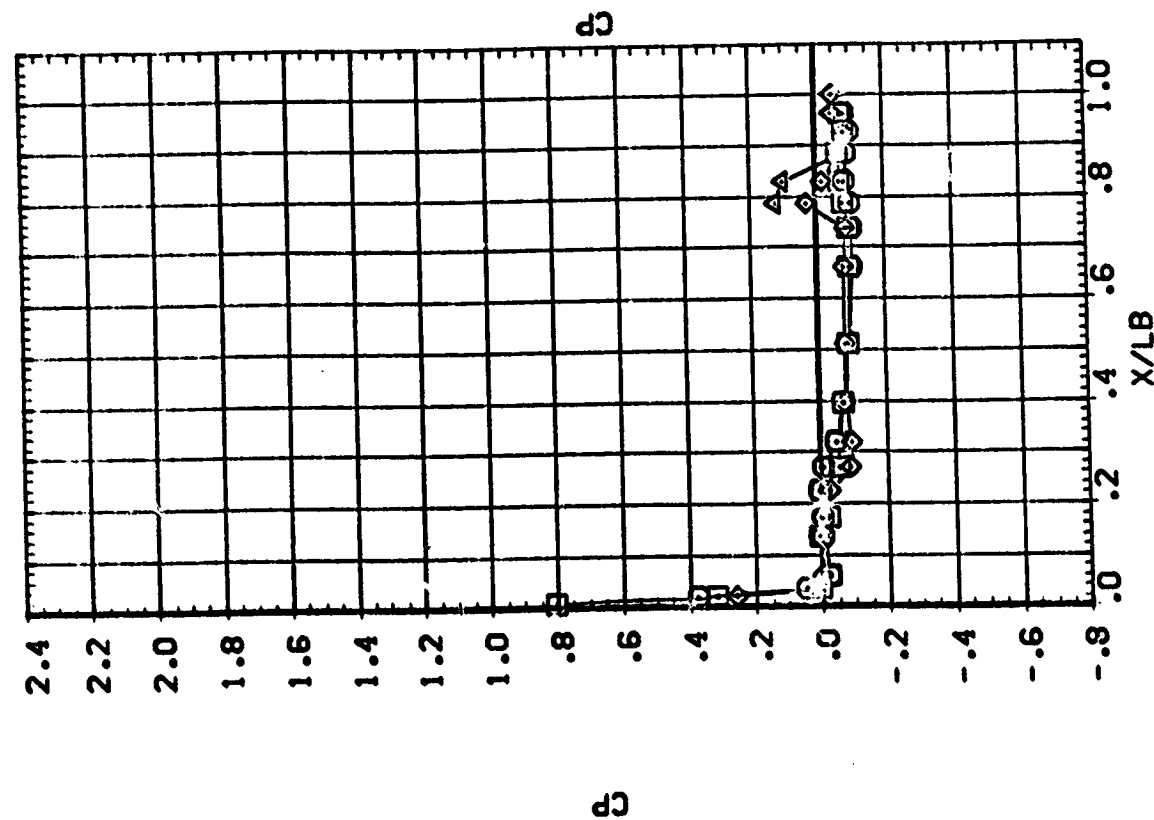
PHI
 70.000
 90.000
 120.000
 135.000

BETAT
 4.400
 8.740

MACH
 2.999

PARAMETRIC VALUES
 ALPHA* 8.000
 RUDDER 0.000
 RUDDLE 0.000
 ELEVON 0.000

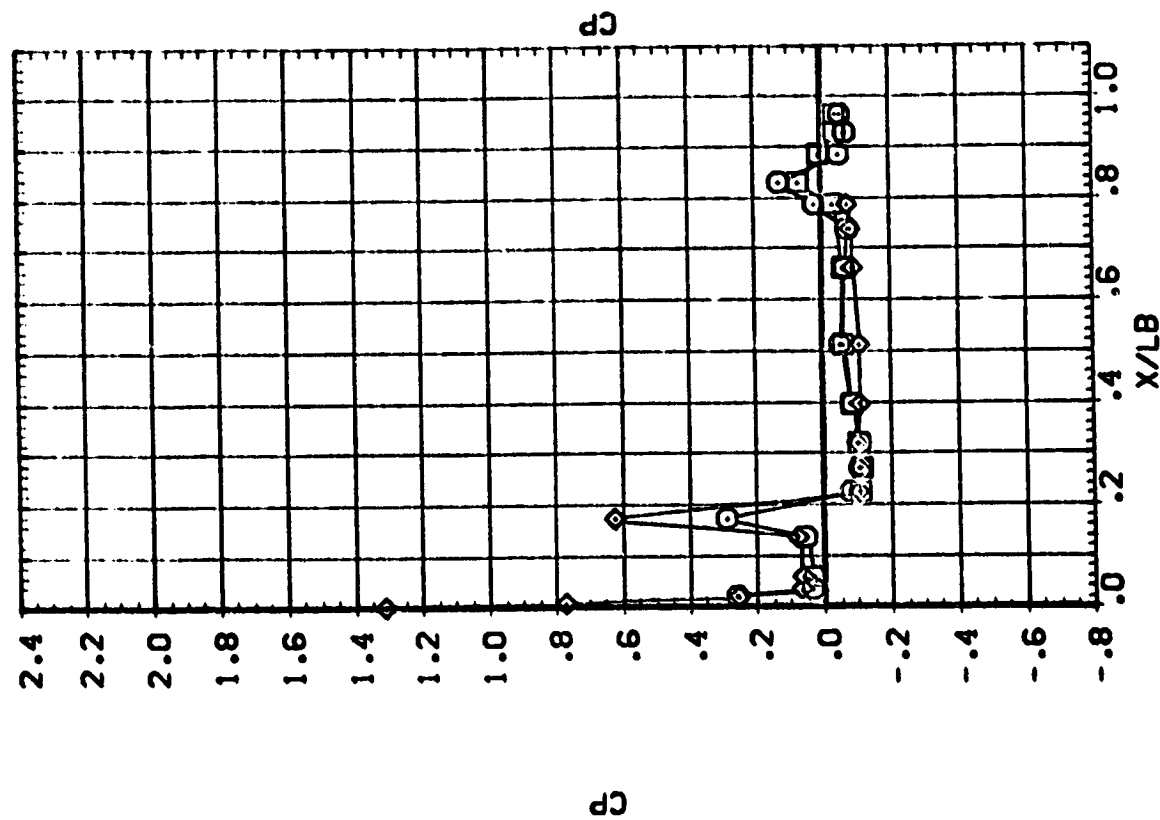
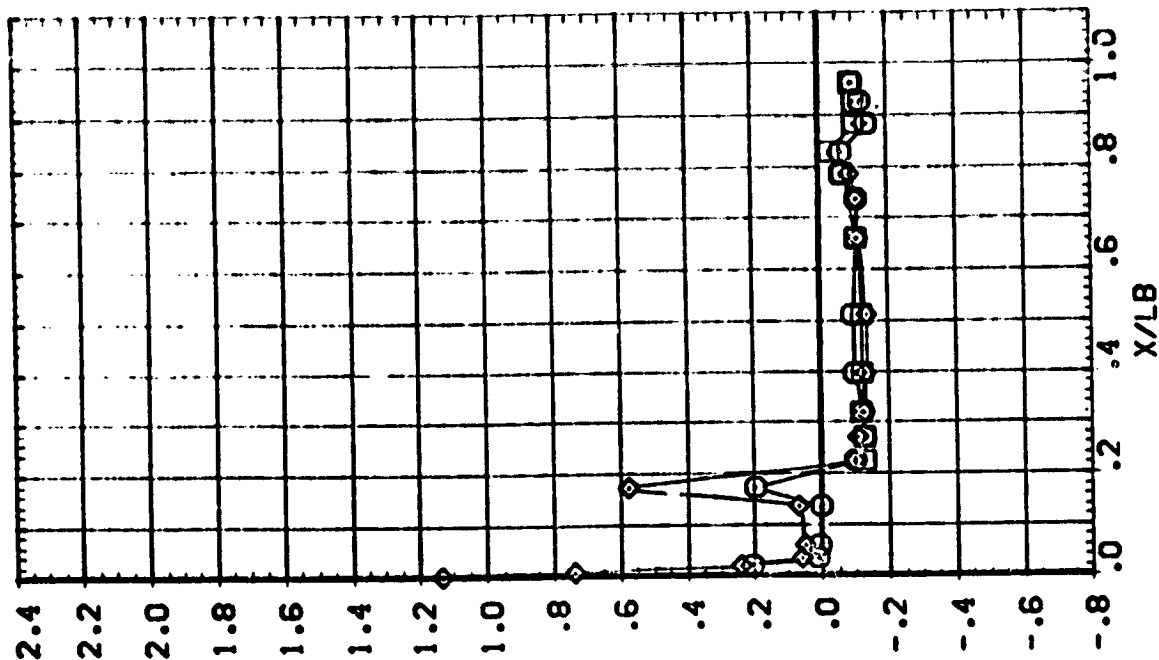
0.500
 0.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

PARAMETRIC VALUES
 ALPHA 0.000 299.12
 RUDDER 1.000 ELEVON 1.000
 RUDDER 1.000

SYMBOLS
 P1 150.000
 P2 155.000
 P3 160.000
 BETAT 4.400 2.999
 MACH 8.740



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

SYMBOL
 ○ ○ ○
 ◇
 △

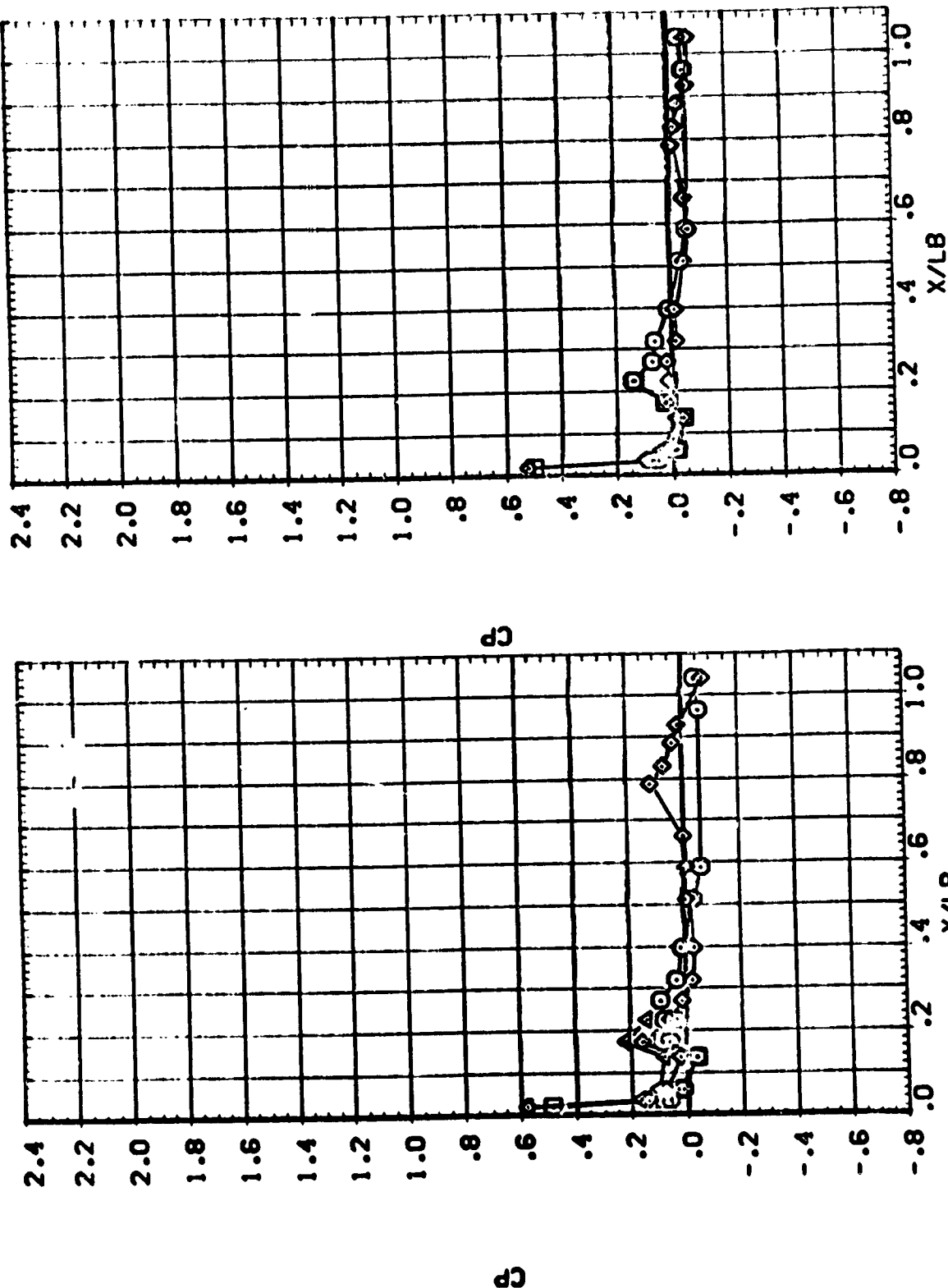
PAI .000
 20.000
 40.000
 55.000

BETAT -4.310
 2.260

MAC- 3.502

PARAMETRIC VALUES
 ALPHAT 8.000
 RJOER .000
 RJOFLR .000

ORBITING .500
 ELEVON .000



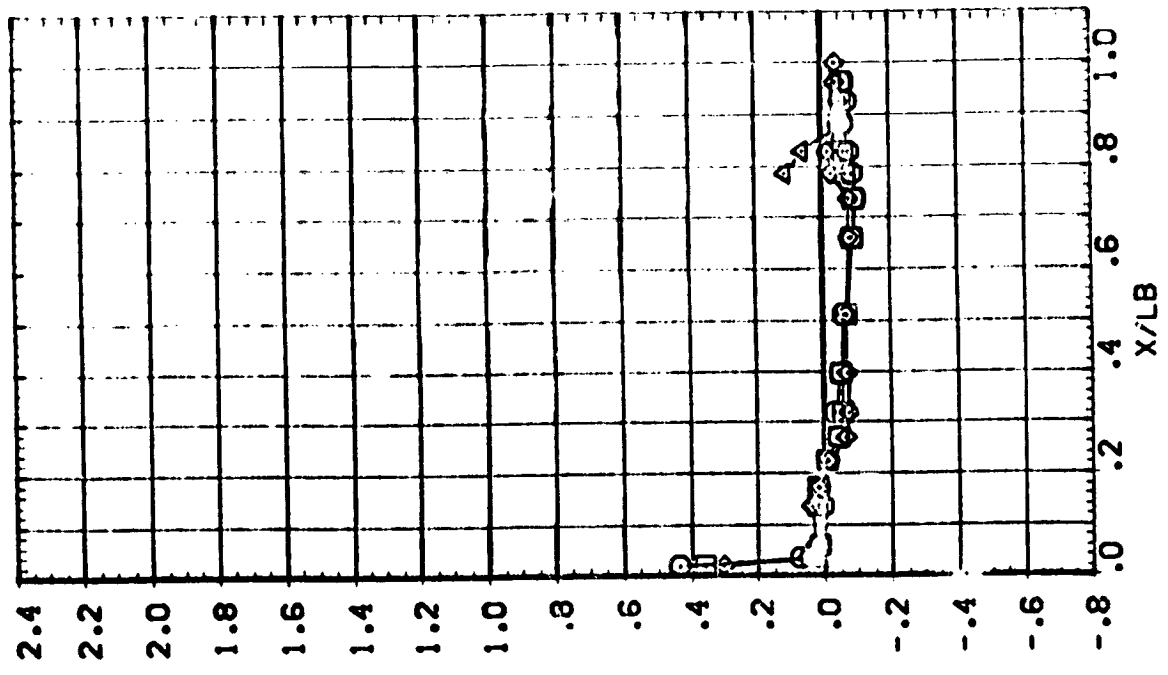
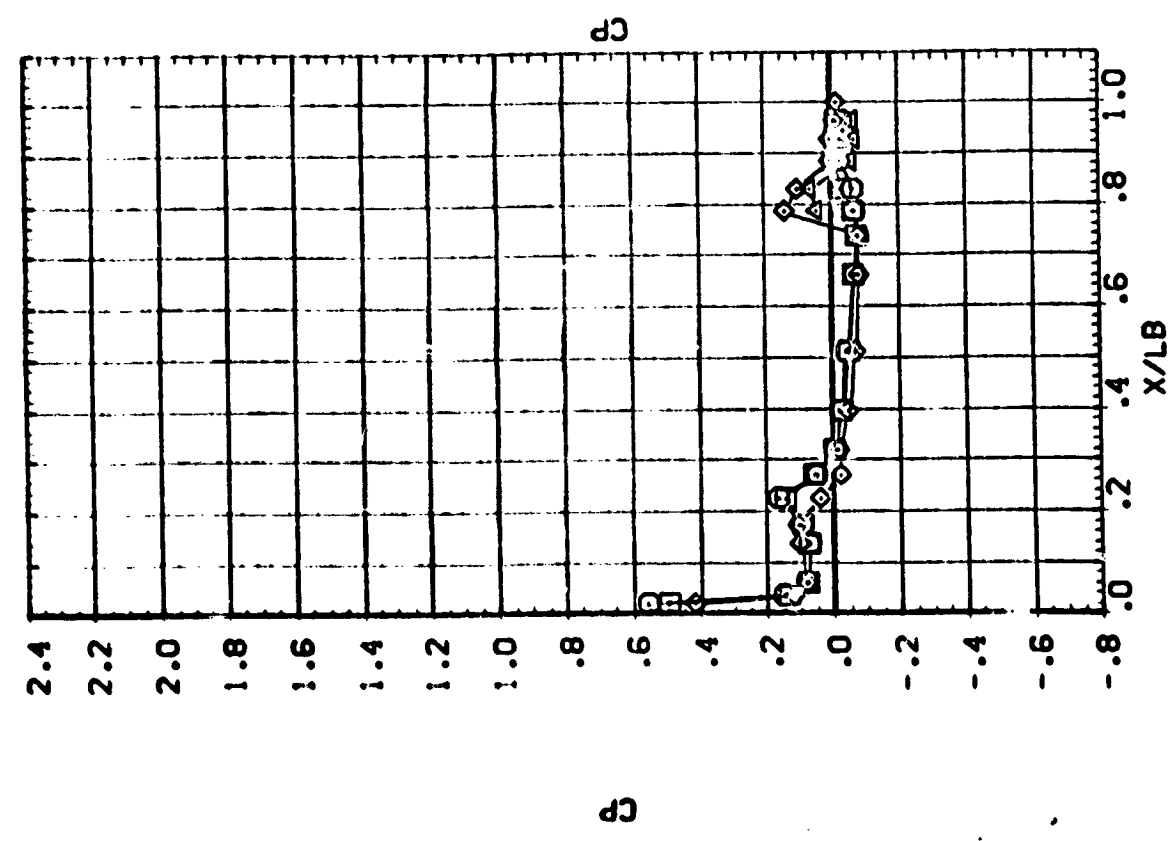
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

SYNOPSIS
 75.000
 85.000
 100.000
 125.000

BETA: 4.310
 7.260
 MAC: 3.502

PARAMETRIC VALUES
 ALPHAT 8.000
 RUDDER 1.000
 RUFLR 1.000
 399.10
 1.000
 1.000

500
 1000



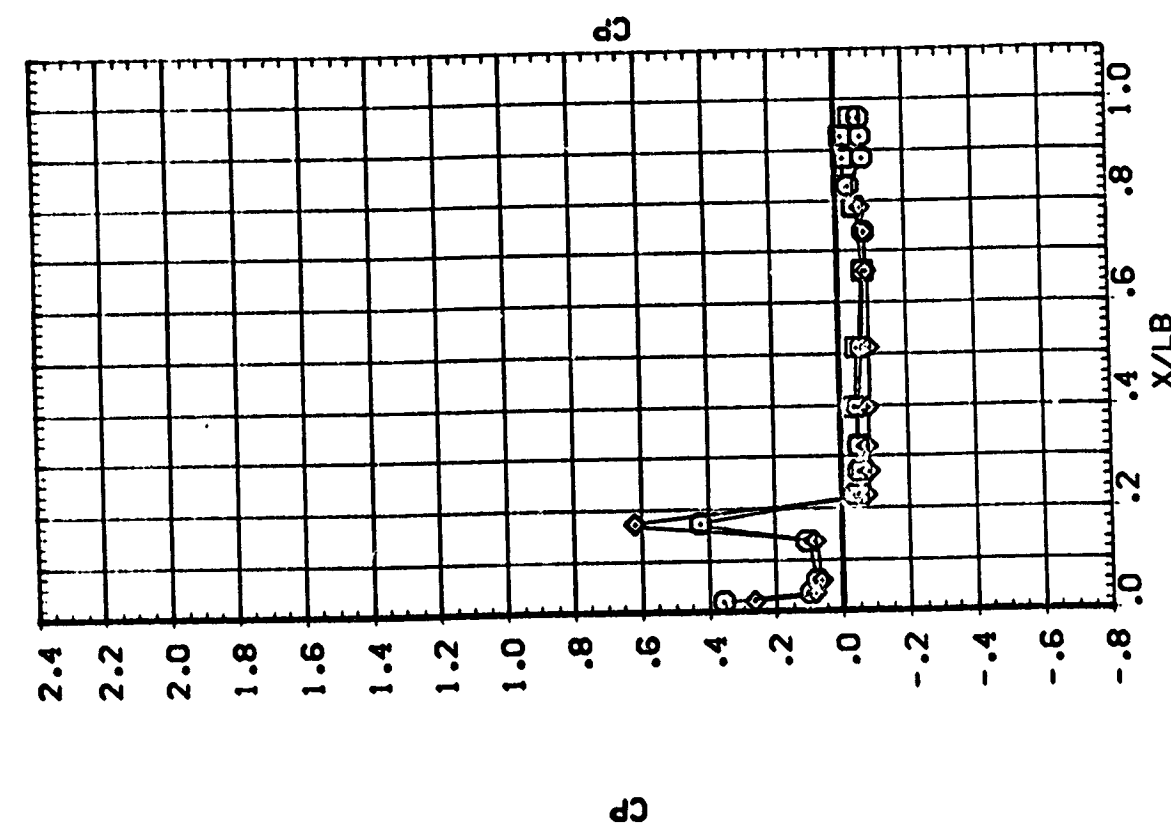
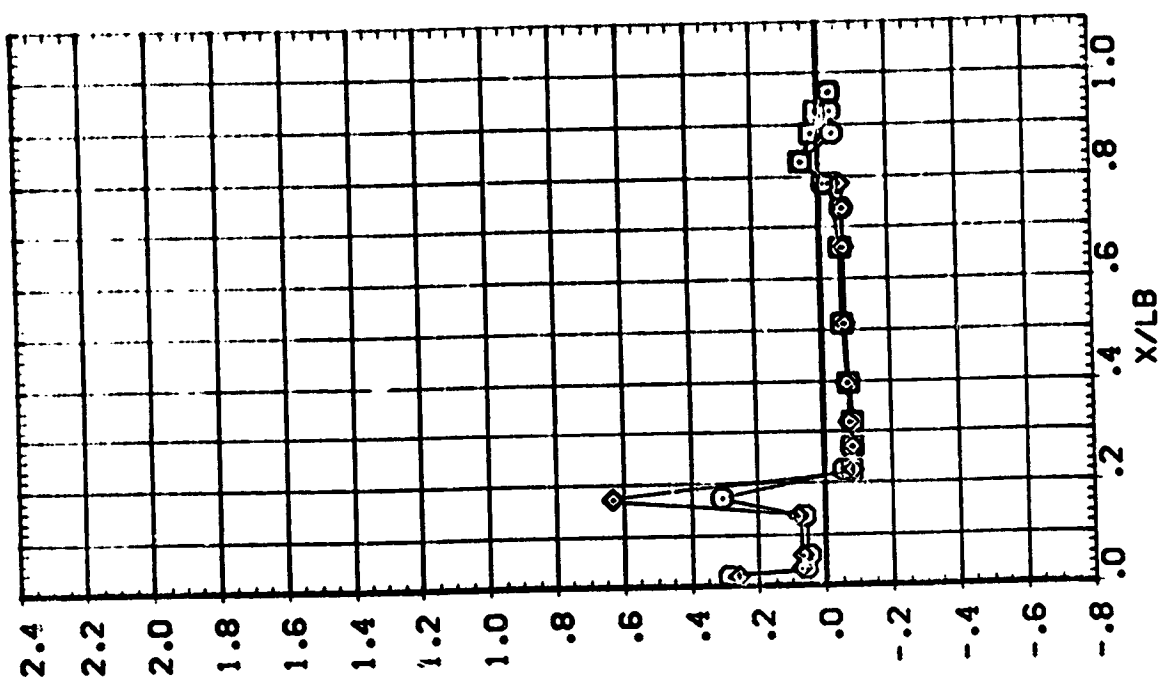
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

10-5 87-00 19 02A 0 33 1 13 000000000000

SYMBOL
○
◇

PH: 50.000
:65.000
:80.000
BETAT 4.310
2.262
MACH 3.502

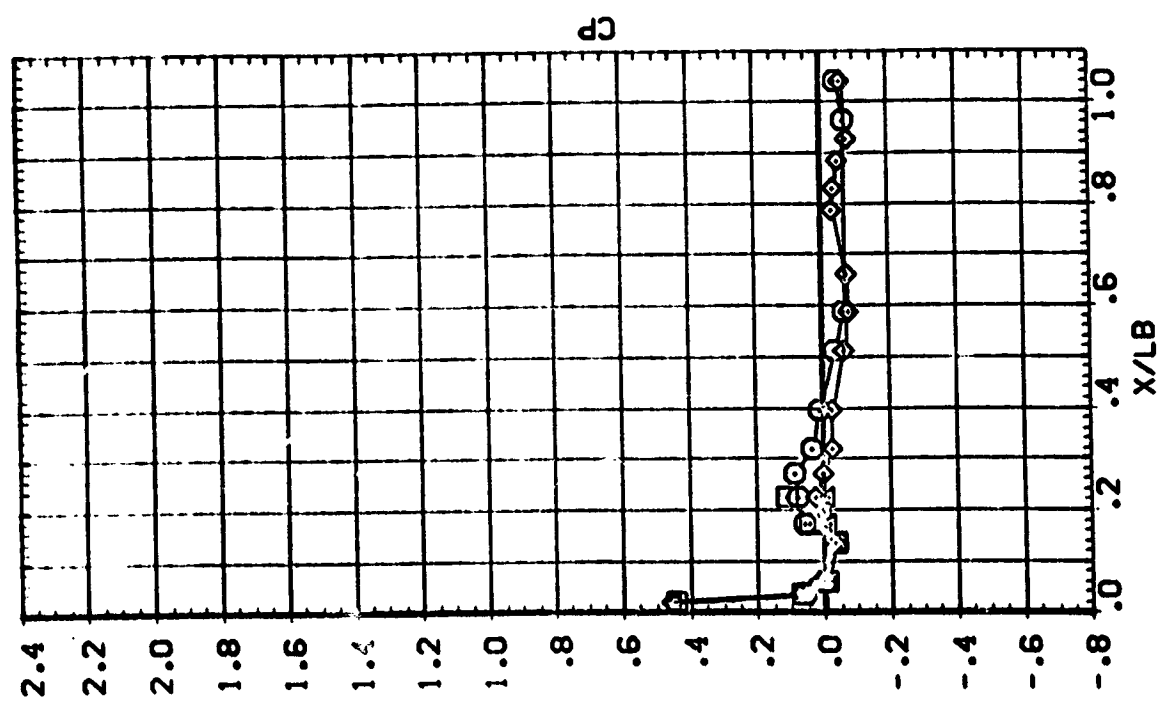
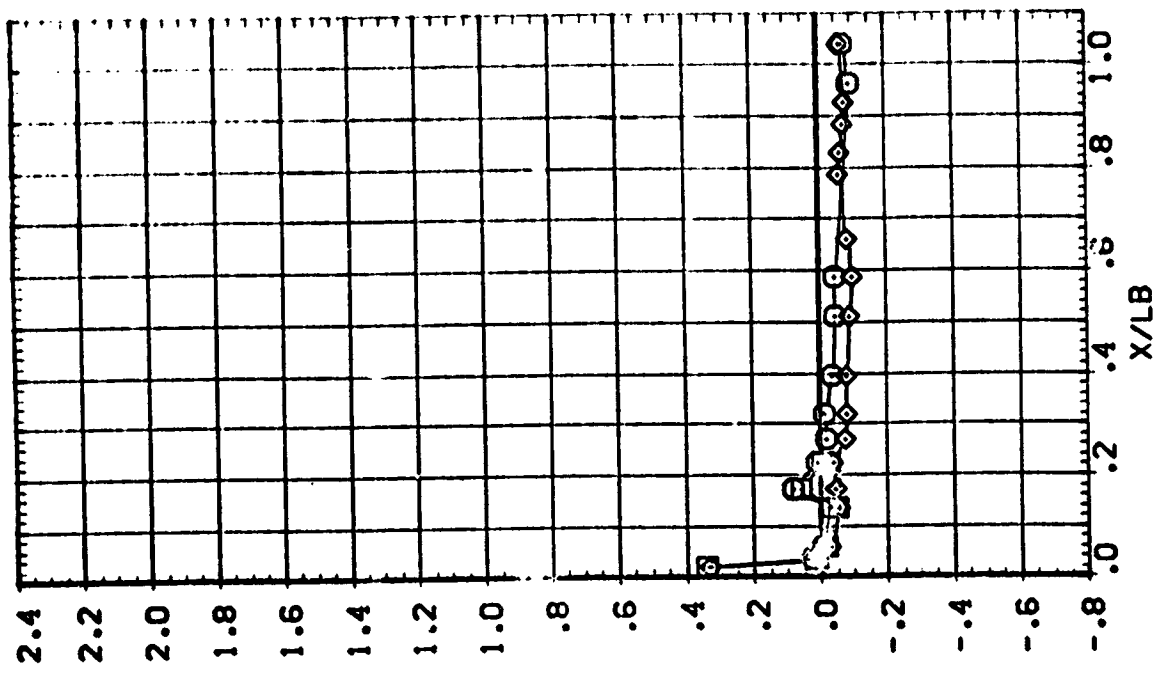
PARAMETRIC VALUES
ALPHA: 0.000
RUDER .000
RUDLR .000
DBINC .500
ELEVON .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

ALPHAT 8.000 999.14
 RUDDER .000 ELEVON
 RUDDFLR .000

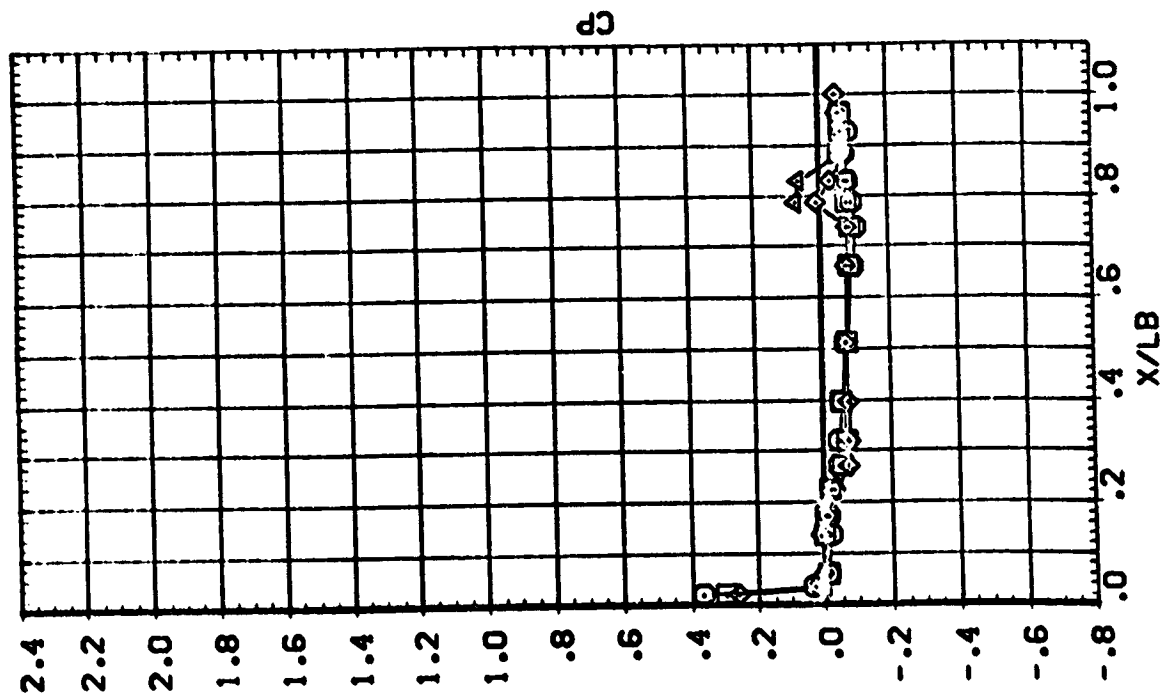
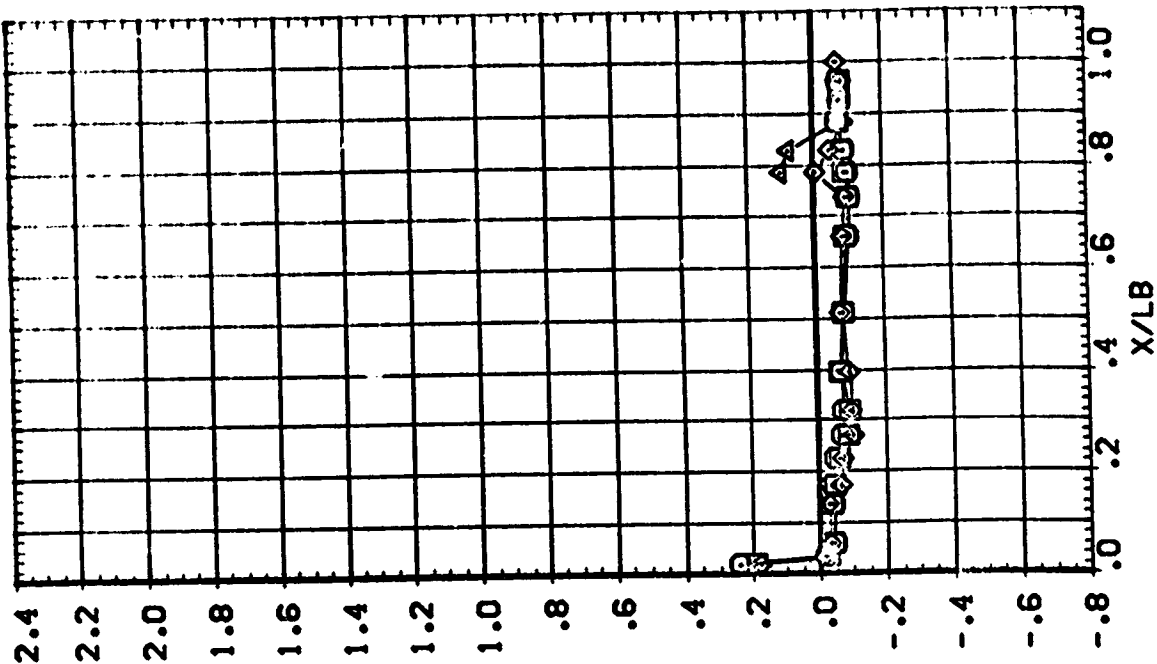
0.000 3.502
 4.180 8.900
 70.000
 40.000
 55.000



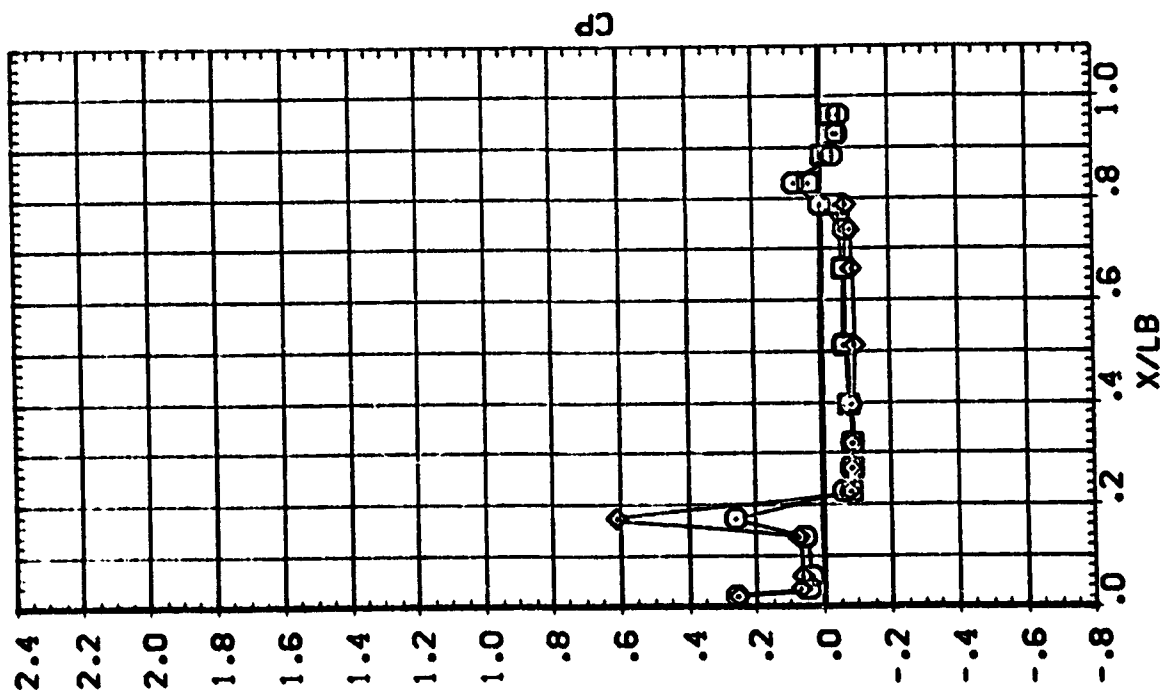
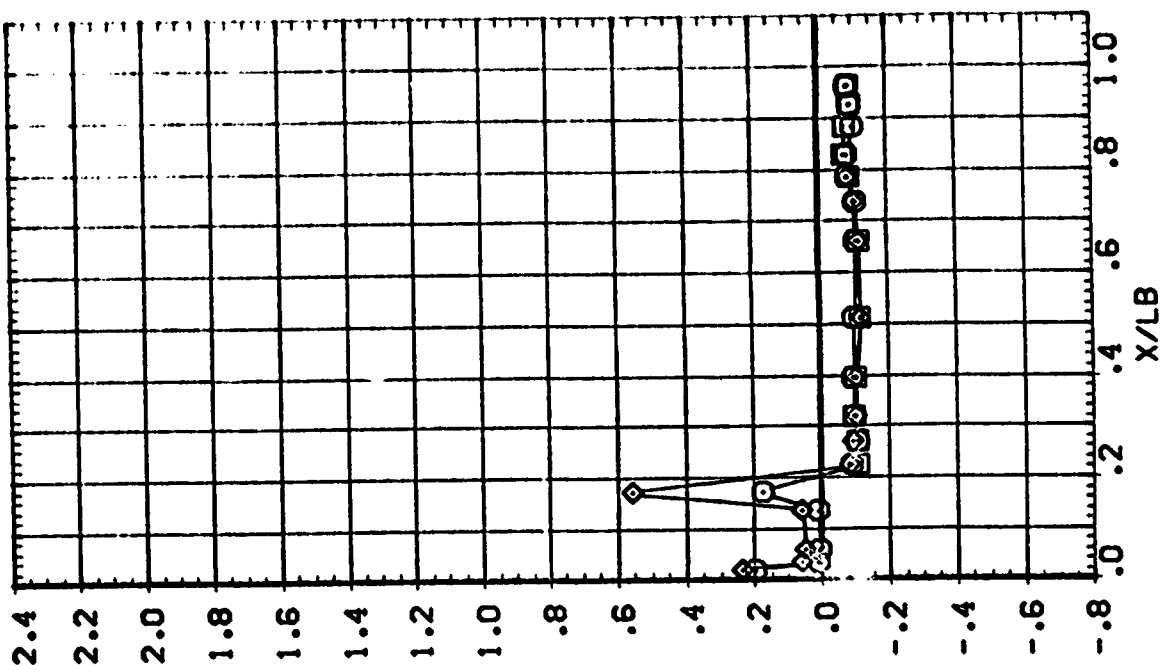
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

ALPHAT 0.000 9.000
 RUDDER 0.000 0.000
 RUOTLR 0.000 0.000

ALPHAT 0.000 3.500
 RUDDER 4.480 0.900
 RUOTLR 0.000 0.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

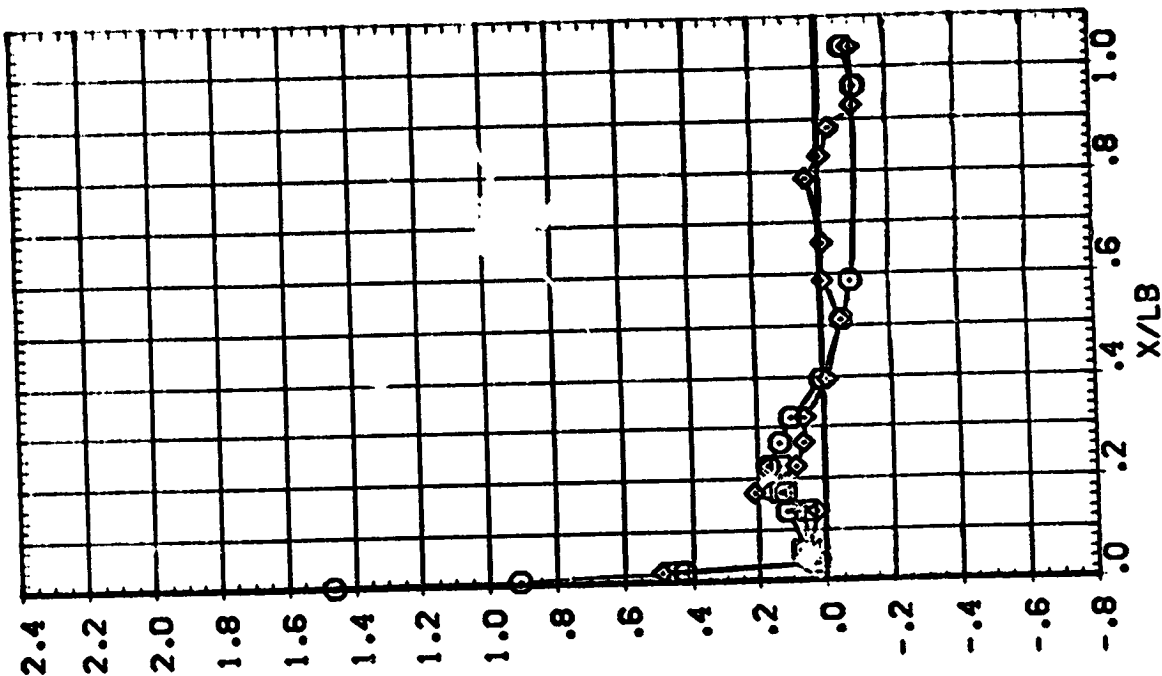
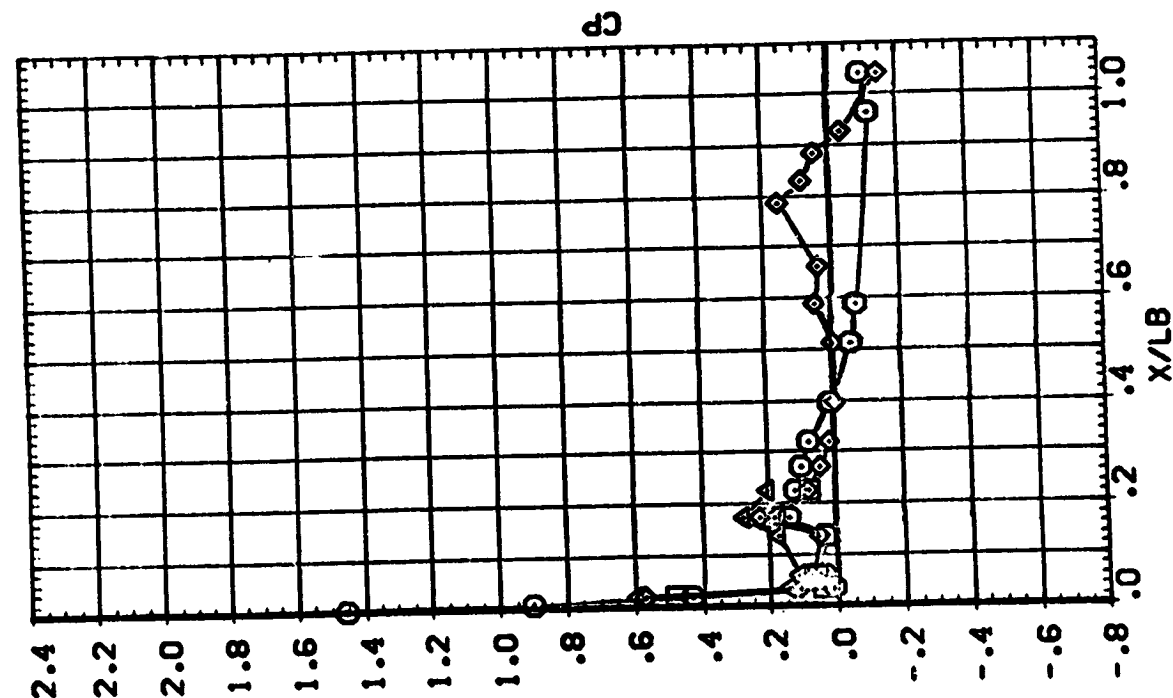
AYES 87-707 :A9 C2A + S3 + T9 ORBITER FUSELAGE (RBN913)

SYMBOL
 ○
 ◇
 △

PHI
 .000
 20.000
 40.000
 55.000

BETAT MACH
 -4.180 2.458
 .060

PARAMETRIC VALUES
 ALPHAT .000 ORBITING
 RDOER -15.000 ELEVON
 RDOFLR .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

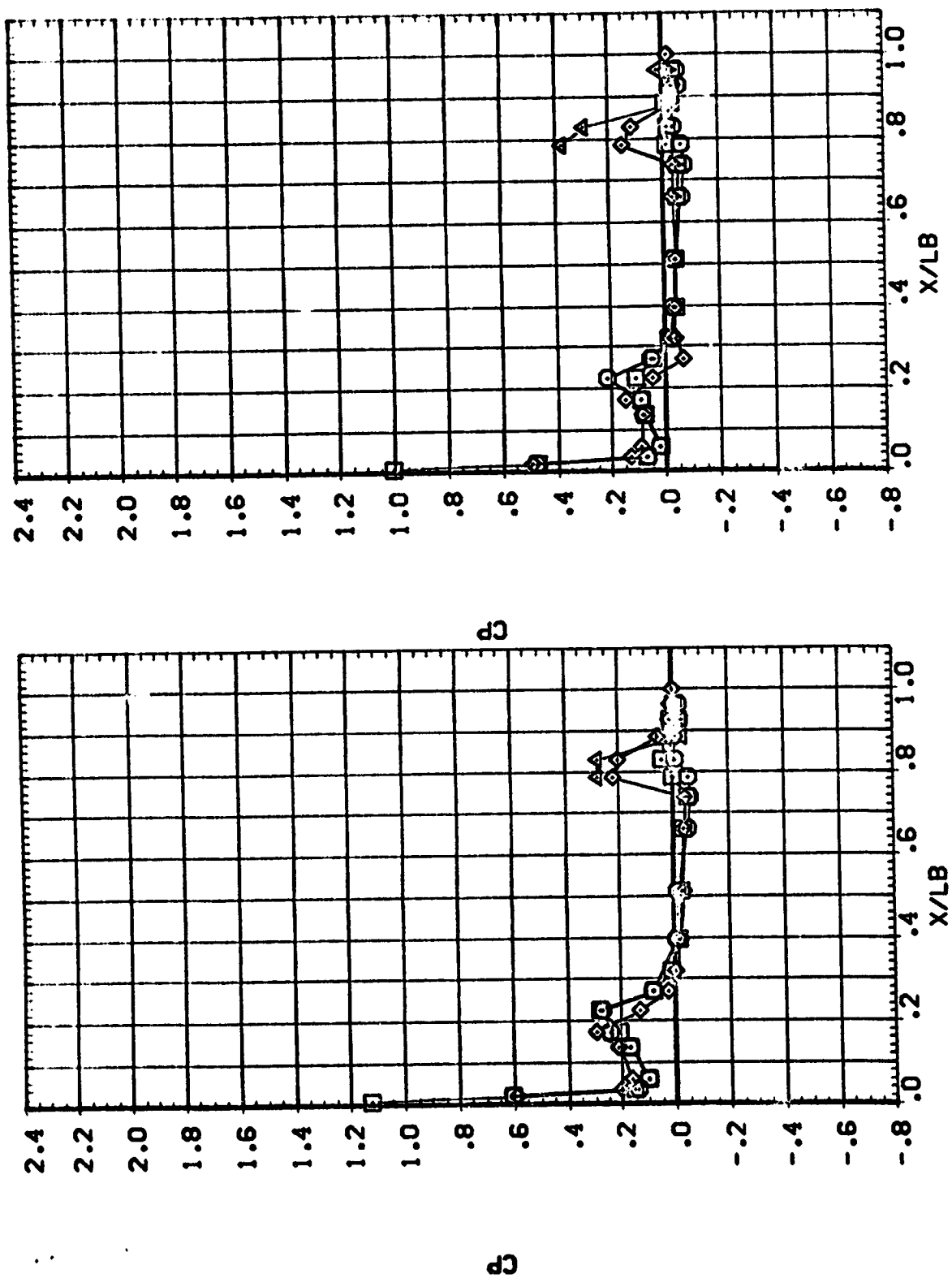
SYNCH
O
U
◇
△

DN: 70.000
30.000
120.000
135.000

BEAT 4.180
MACH 2.498
.000

PARAMETRIC VALUES
ALPHA: .000
RUDDER -15.000
RUDFLR .000
ORBITING
ELEVON .000

.000
.000

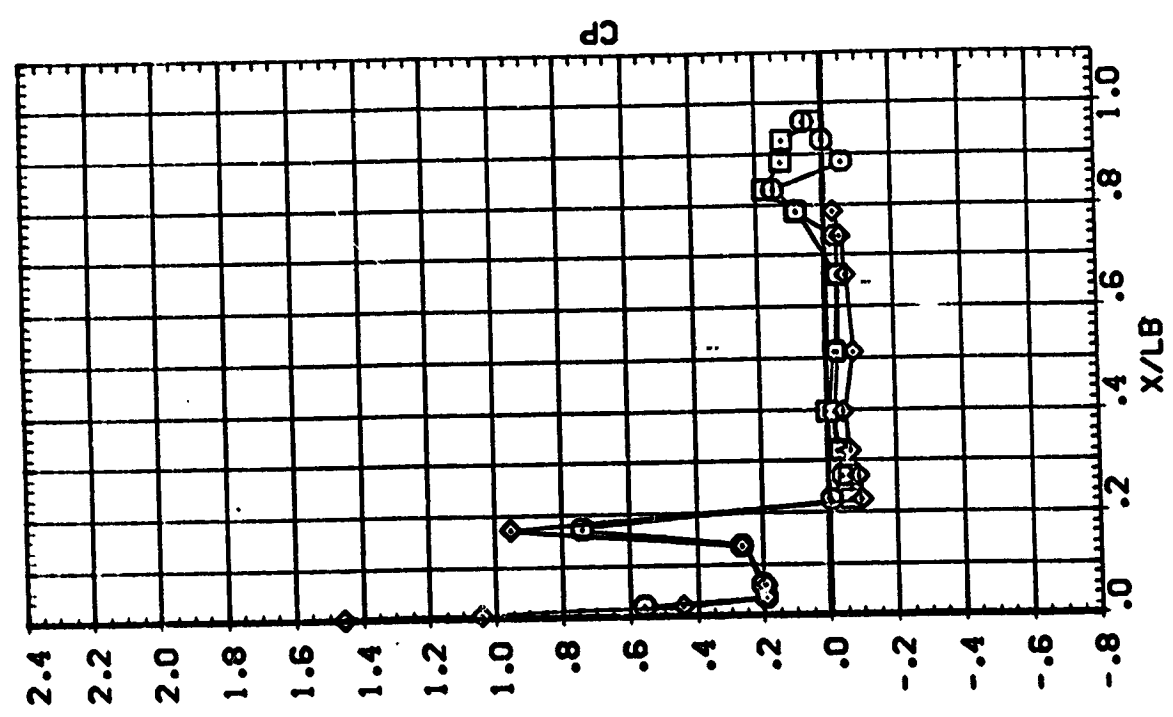
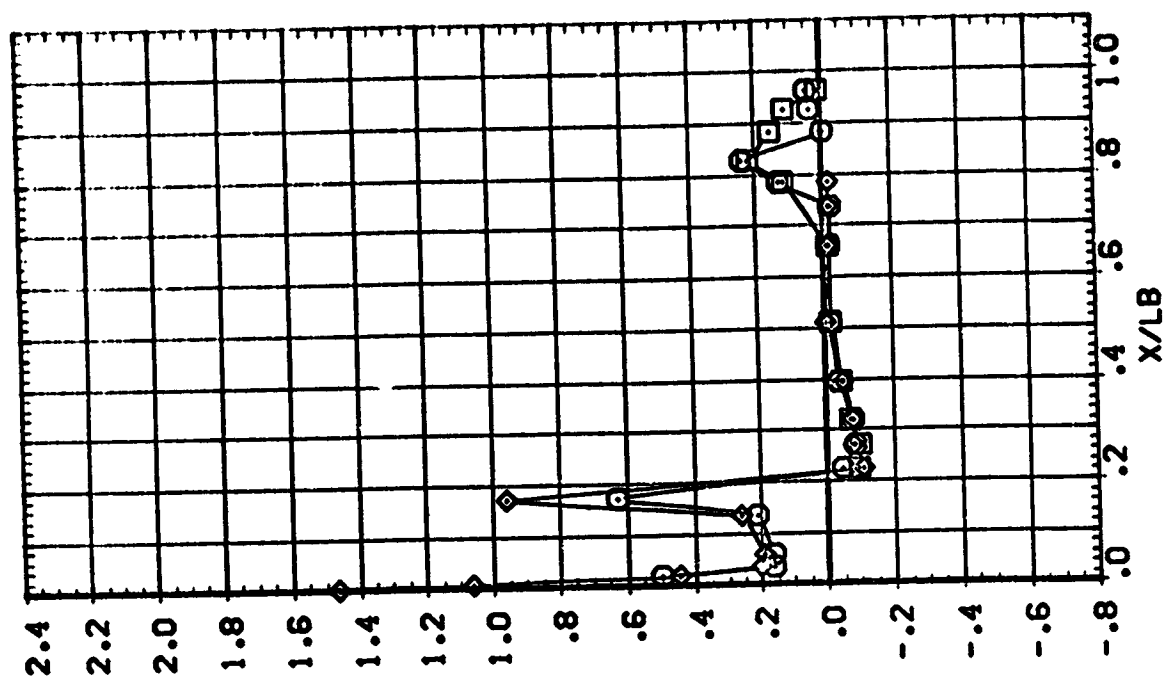


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

PARAMETER VALUES
 ALPHAT .000 ORBITING
 RUDDER -15.000 ELEVON
 RUDDER .000

SYMBOLS
 P-1
 150.000
 65.000
 80.000

BETAT MACH
 -4.180 2.498
 .060



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

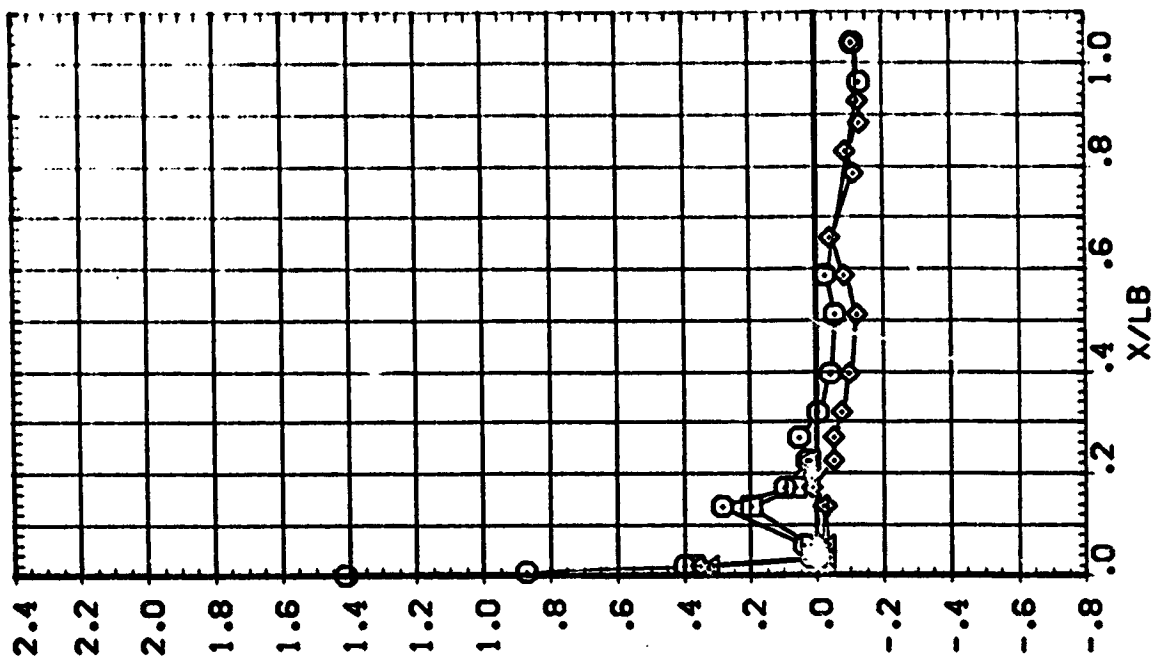
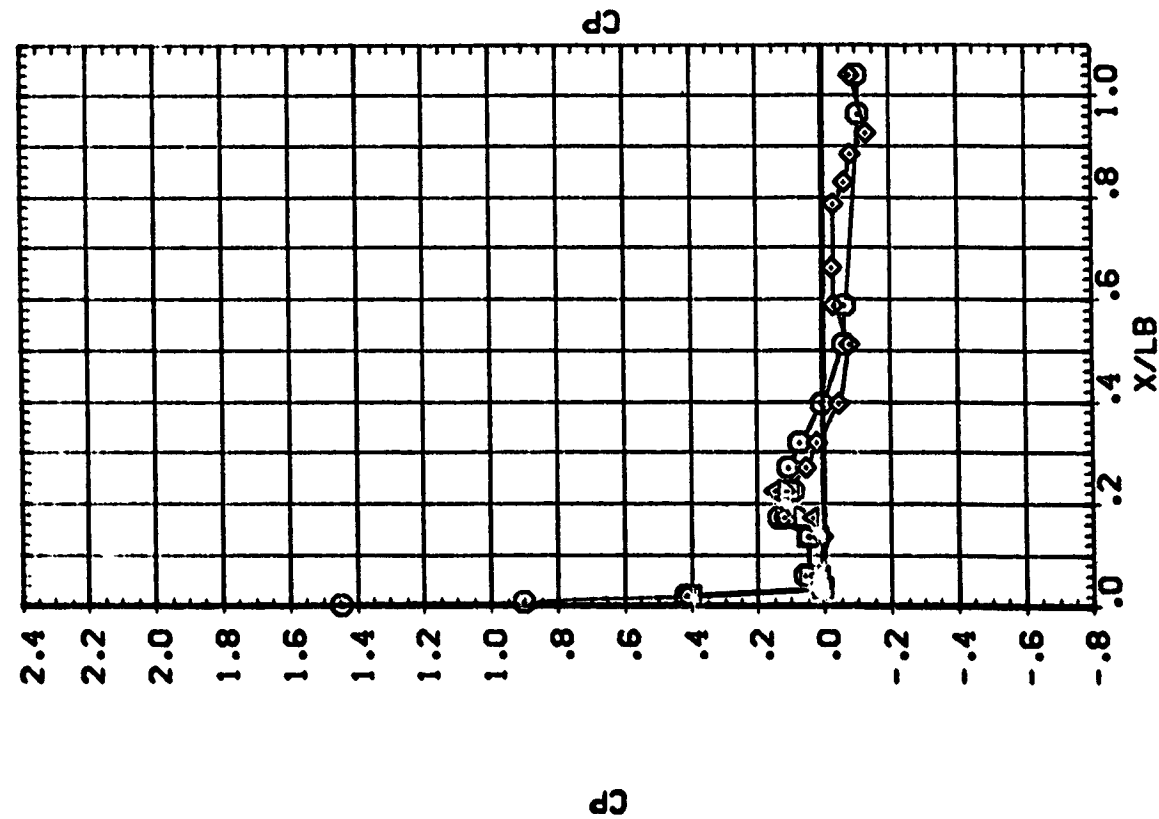
AVES 87-707 :A9 C2A + S3 + 79 CRIBITER #USELAGE

SVGC 01104

8888
ä 245

BETAT	WACH
4.300	2.498
0.540	

	PARAMETRIC VALUES
ALPHAT	.000
RJORDER	-15.000
RJCFIR	.000
	.500
	.000
	.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

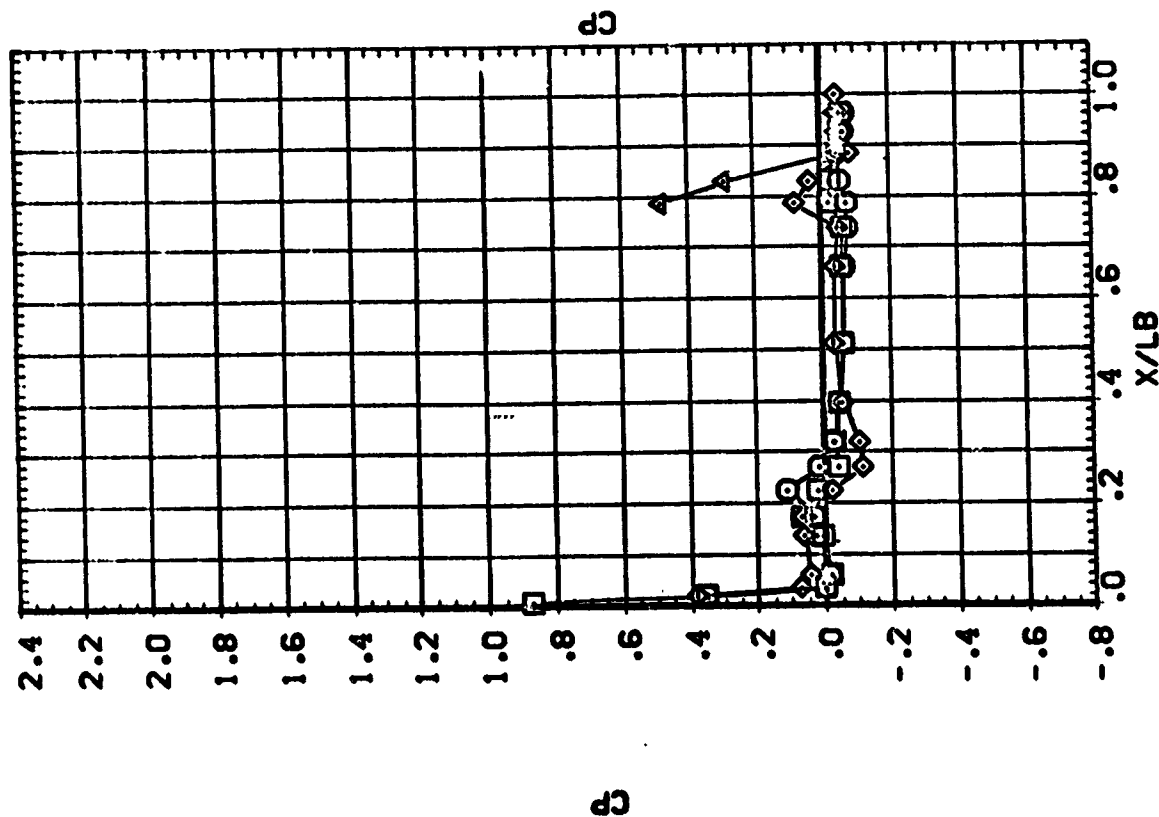
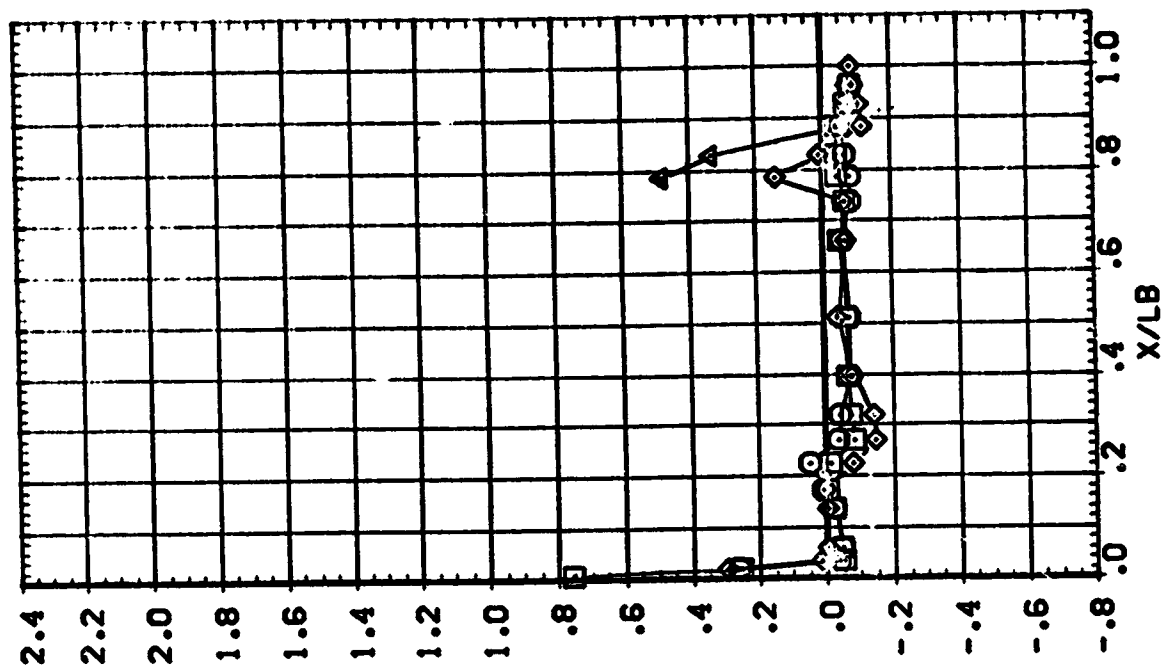
AYES 87-707 1A9 C2A + S3 + T9 ORBITER FUSELAGE (RBNB13)

PARAMETRIC VALUES

ALPHAT	ORBIT	ORBIT
0.000	0.000	0.000
-5.000	0.000	0.000
0.000	0.000	0.000

SYMBOL

PAI	BETAT	MACH
70.000	4.300	2.498
90.000	8.540	
120.000		
135.000		

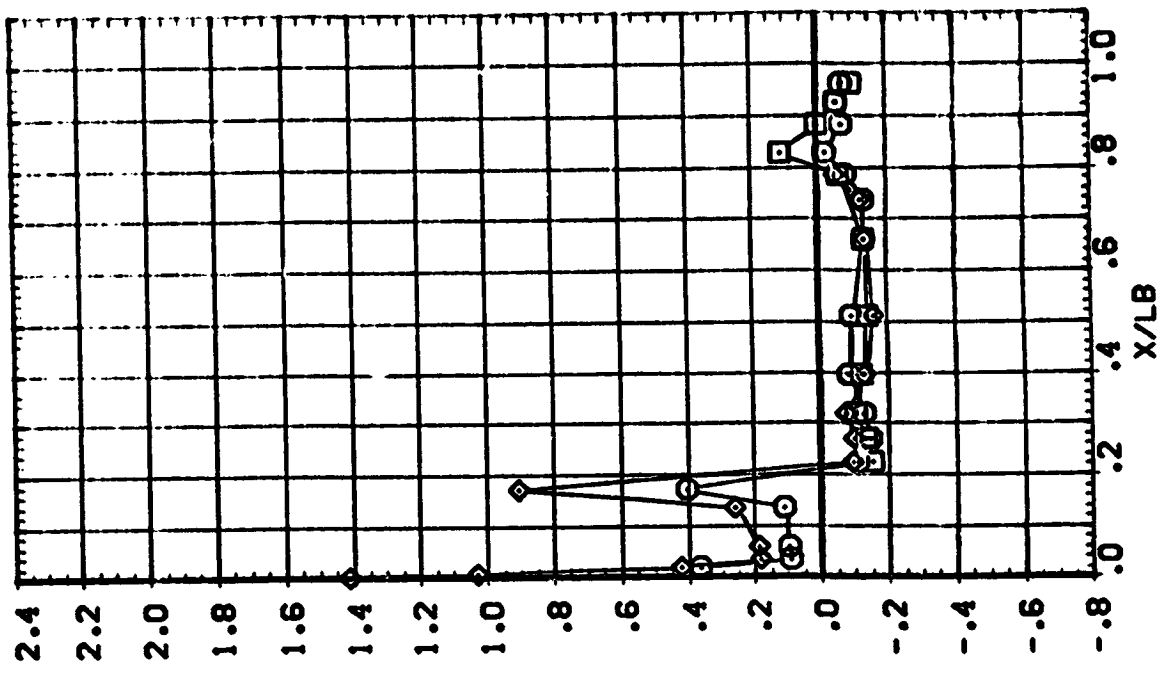
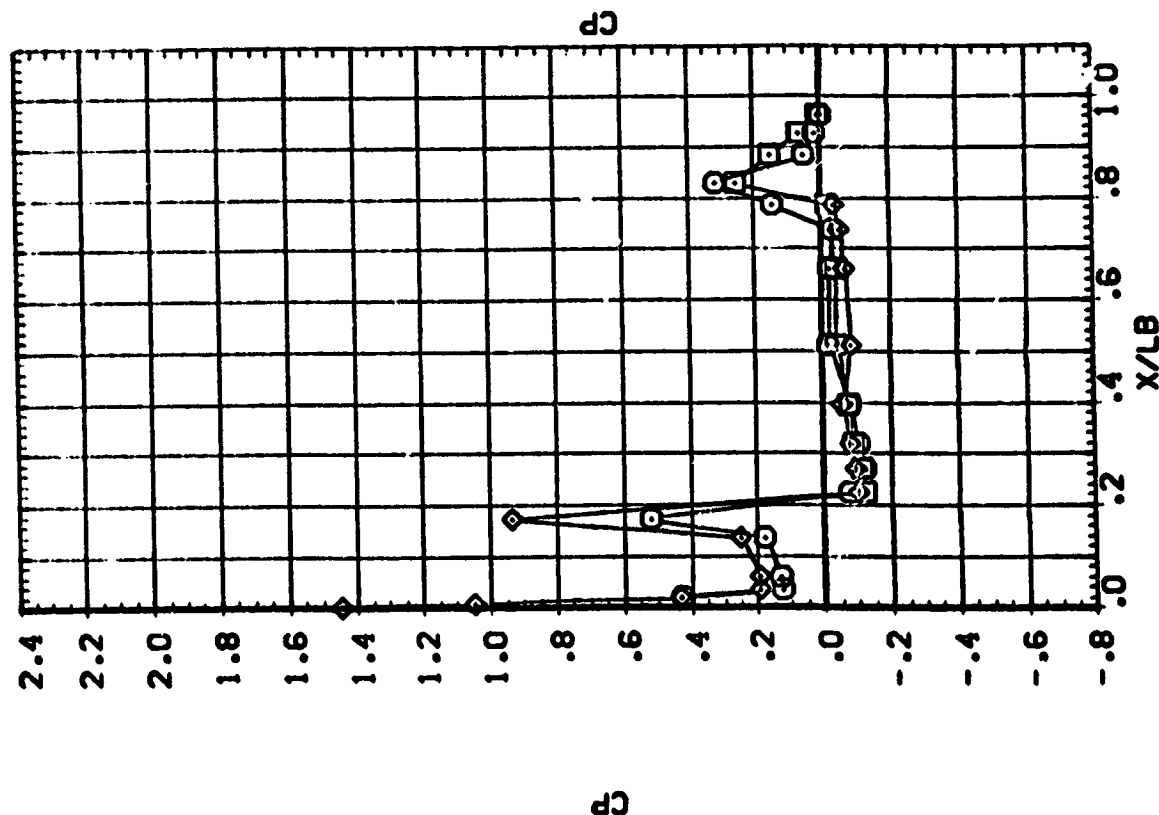


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

SY-2C P-1 BEIAT MACH
 :50.000 4.300 2.498
 :65.000 8.540
 :80.000

PARAMETRIC VALUES
 ALPHA .000 ORBIT INC .500
 RUDDER -.5.000 ELEVATION .000
 ROLLOFF .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

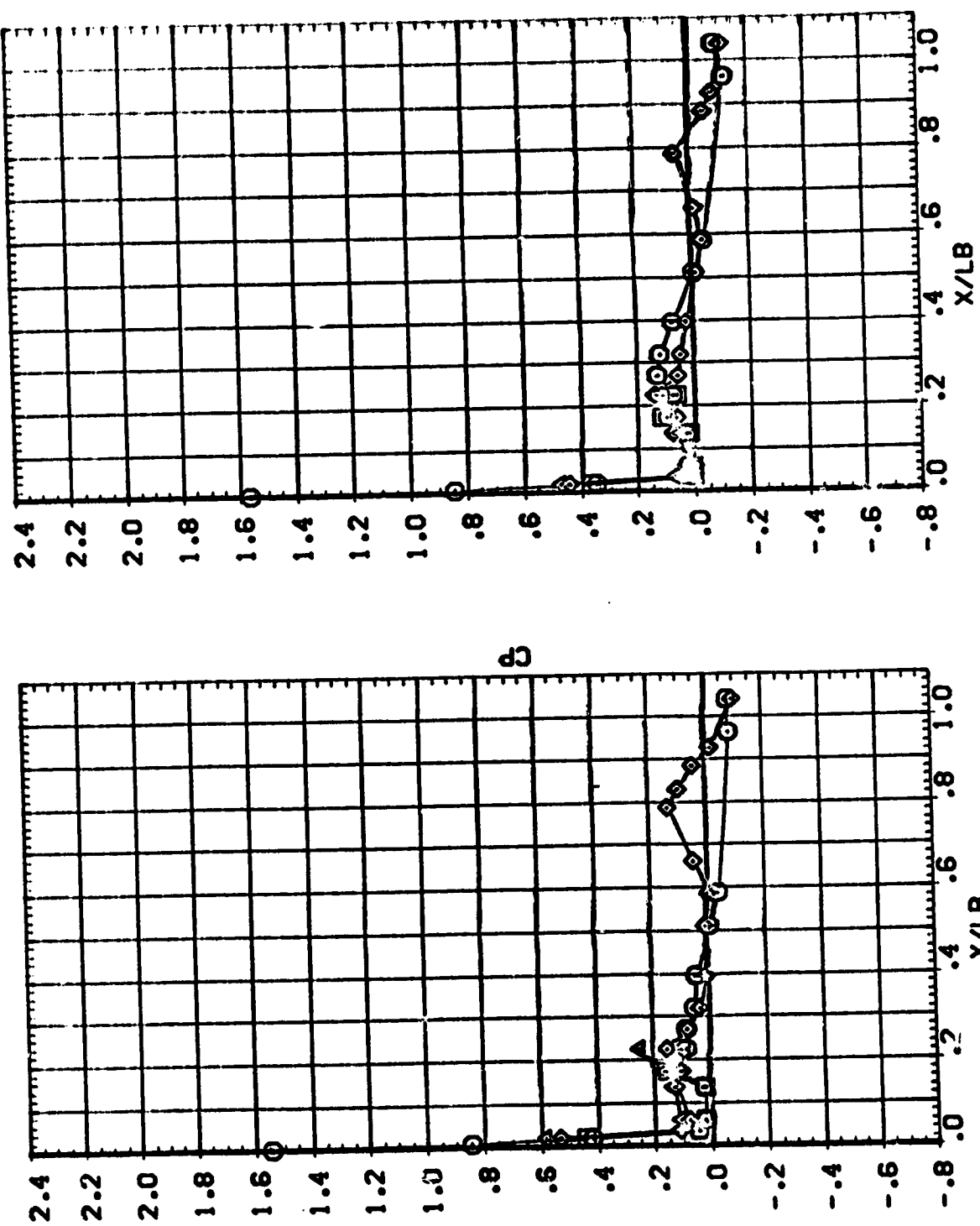
AVES 87-707 :A9 C2A + S3 + T9 ORBITER FUSELAGE (RBNB13)

SYMBOL
 ○ ○ ○ ○
 △

PM: .000
 20.000
 40.000
 55.000

BETAT MACH
 -4.260 2.999
 .060

PARAMETRIC VALUES
 ALPHAT .000 ORBITC .500
 RUDDER -15.000 ELEVON .000
 RUOFLR .000

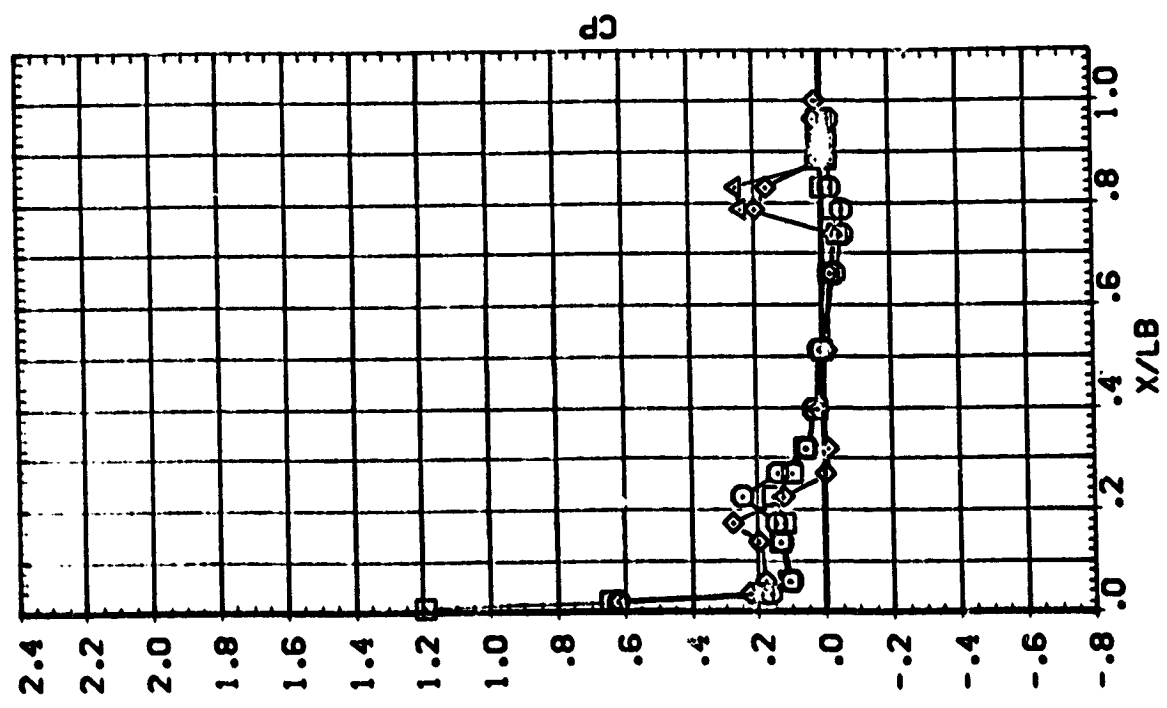
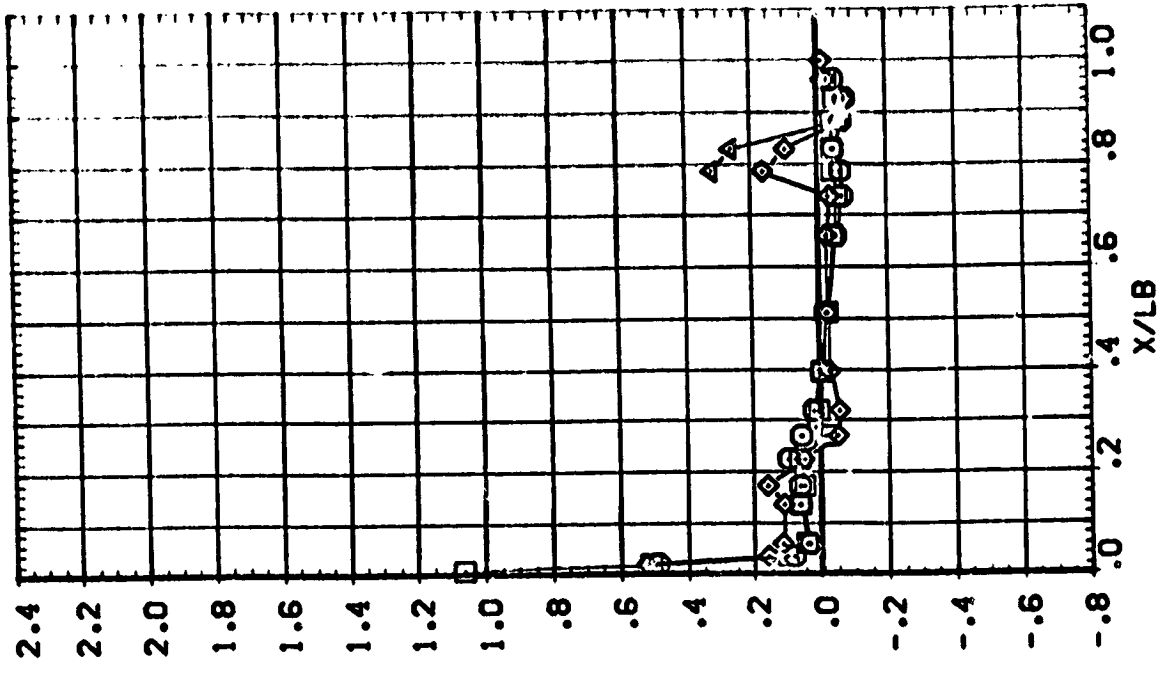


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-7C7 :A9 02A + S3 + T9 ORBITER FUSELAGE (RBNB13)

PARAMETRIC VALUES
 ALPHAT .000 ORBINC .500
 RUDDER -15.000 ELEVCH .000
 RUOFLR .000

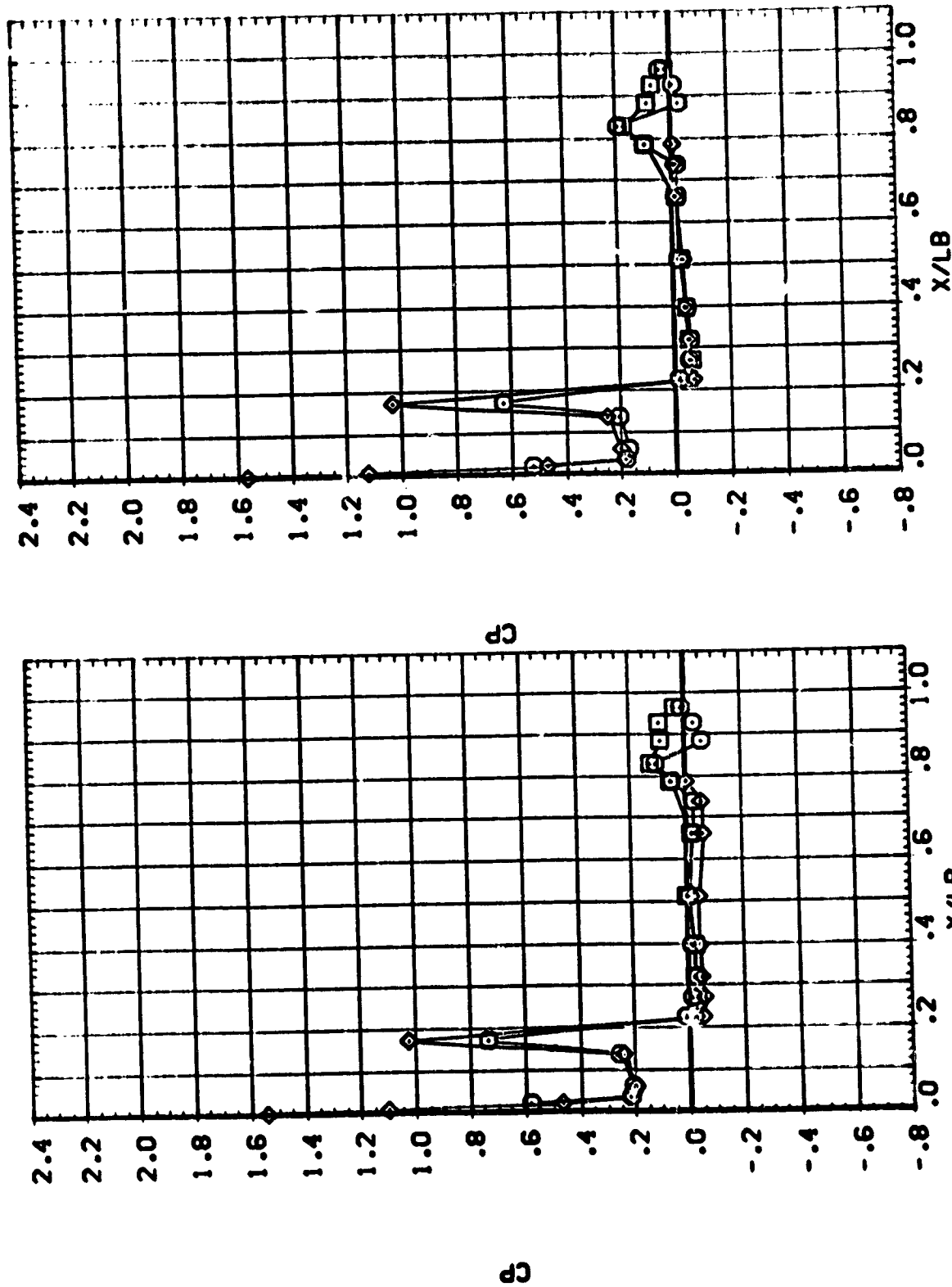
SYSC- PAI BE"A" WACH
 75.000 -4.260 2.999
 90.000 .000
 125.000
 135.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 1A9 C2A + S3 + T9 ORBITER FUSELAGE (R8N813)

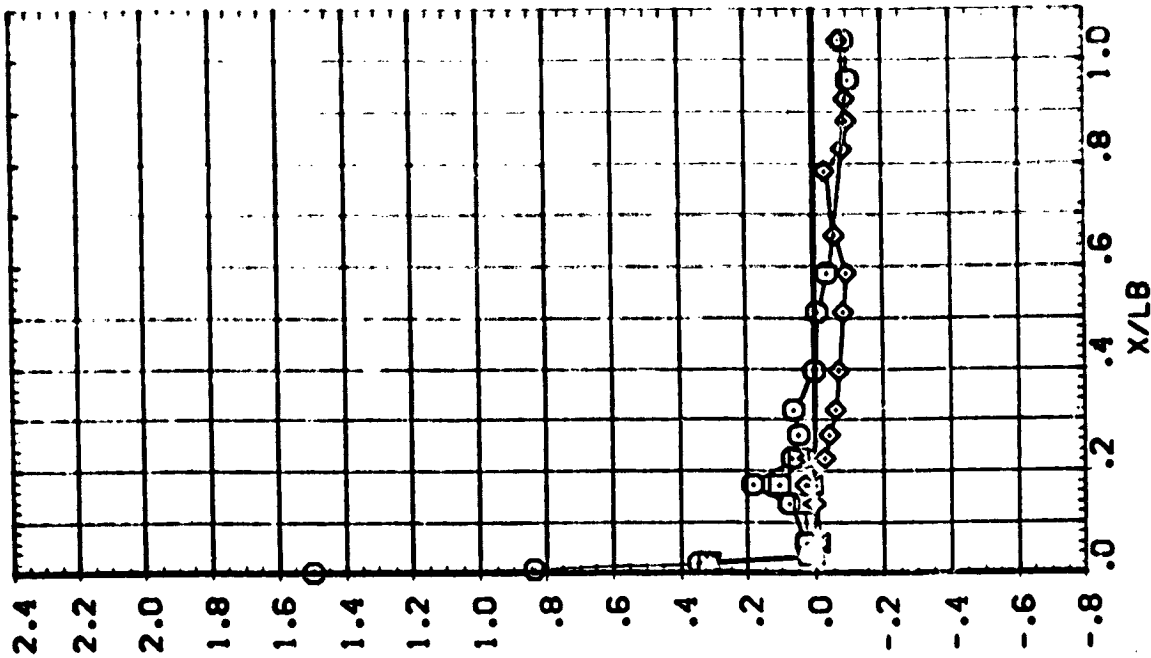
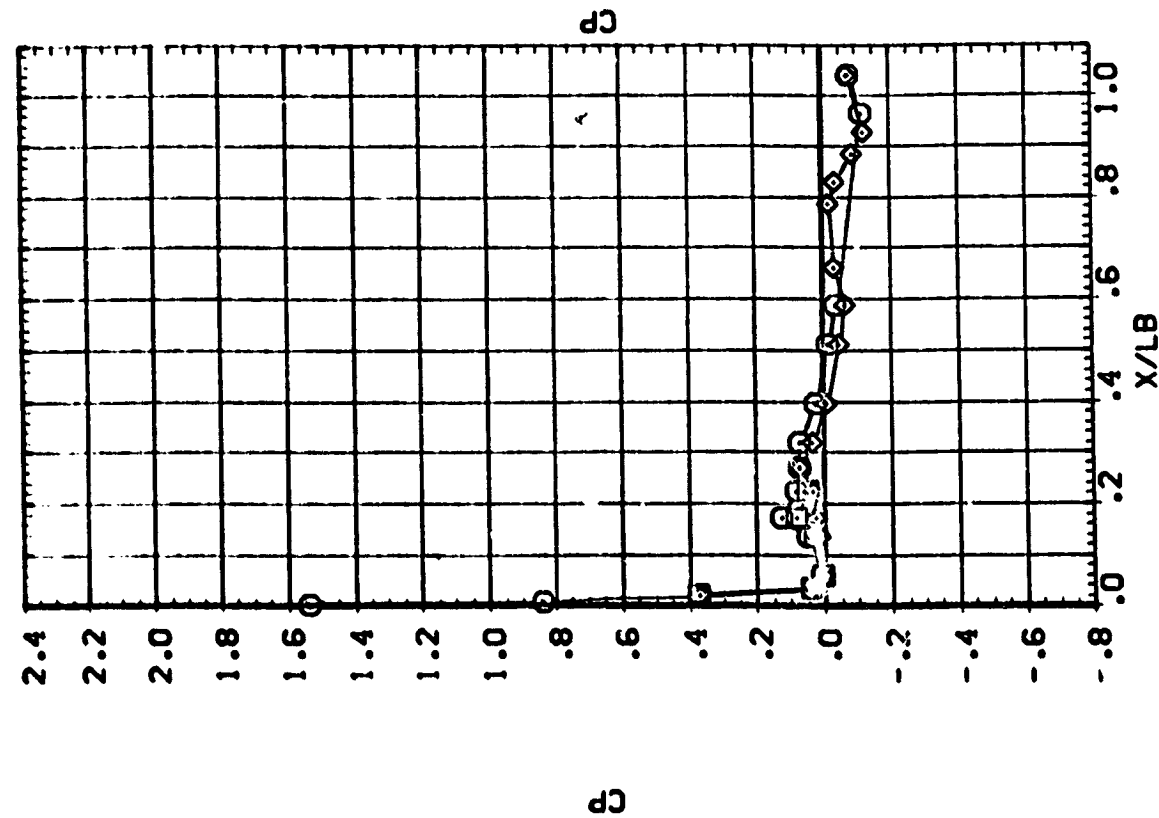
SYMBOL	ALPHAT	PARAMETRIC VALUES
○	RUDER	.000
◇	RDFLR	.000
		598.0
		ELEVON
		-15.000
		.000
		.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

1055 87-107 149 07A 153 1 9 049.884 00000000

S-300 2.000000 4.380 2.999 0.690
 2.000000 4.380 2.999 0.690
 4.380 2.999 0.690
 55.000
 1055 87-107 149 07A 153 1 9 049.884 00000000
 ALPMA 15.000 0.000 0.000
 R-100 15.000 0.000 0.000
 R-100 15.000 0.000 0.000

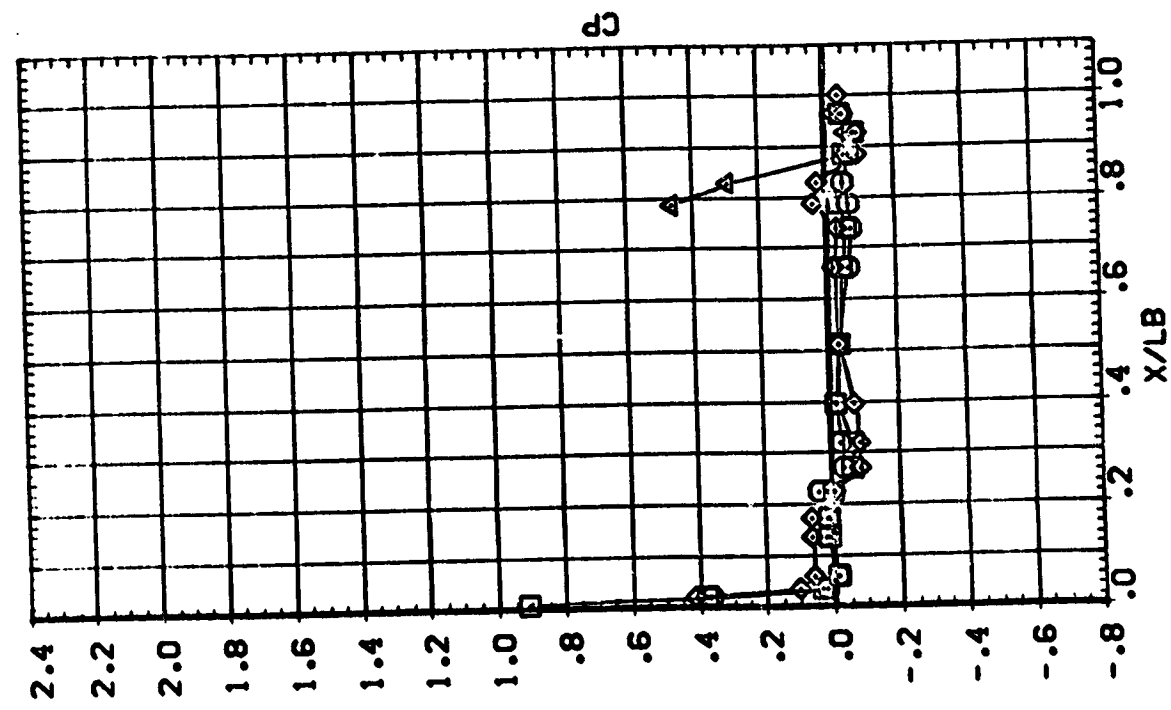
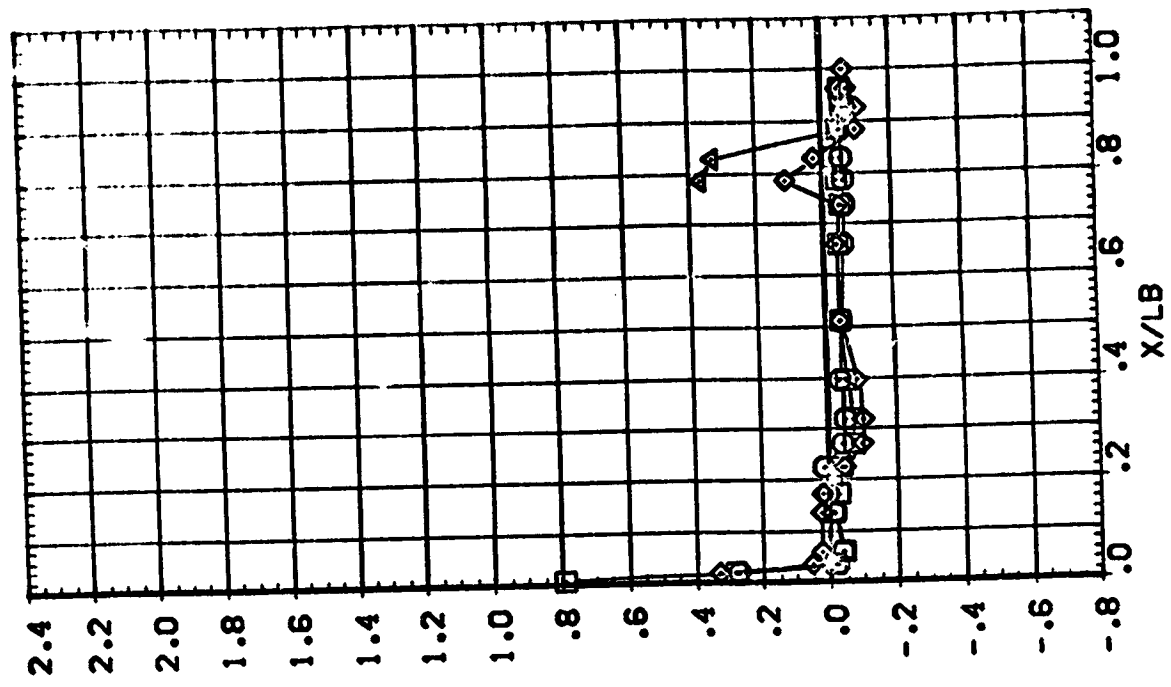


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

0.000 0.000 0.000

ALPHAT .000
 RUDDER -15.000
 RUFLR .000
 ORBING .000
 ELEVON .000

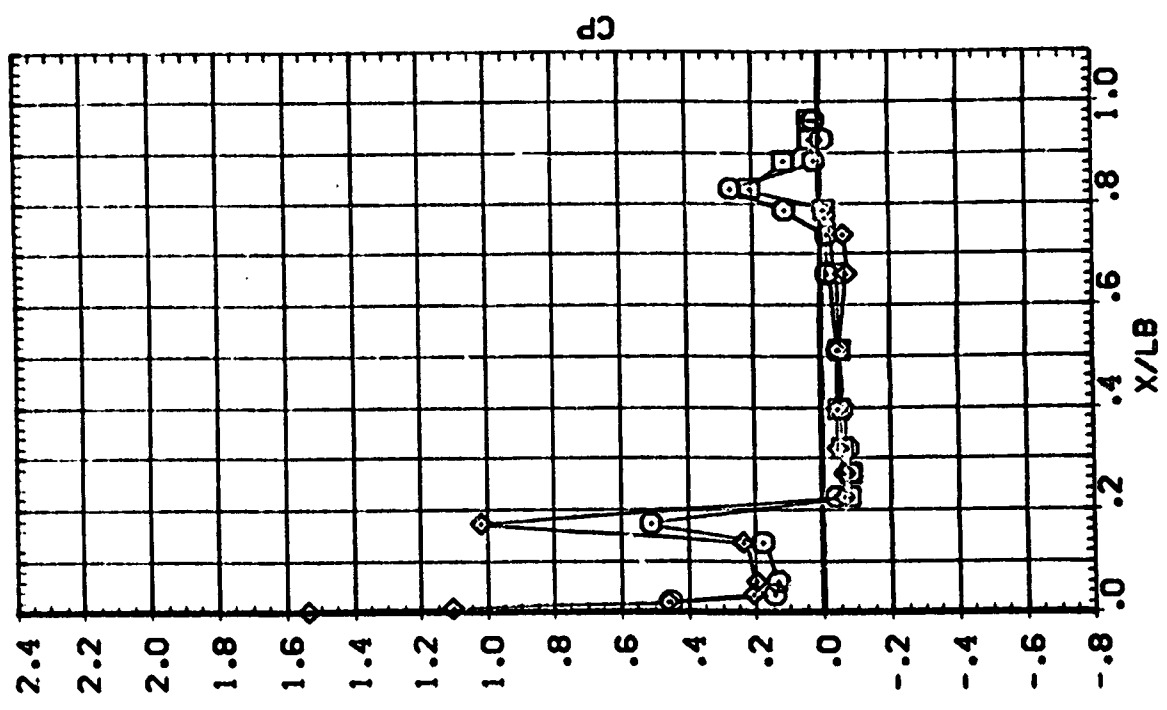
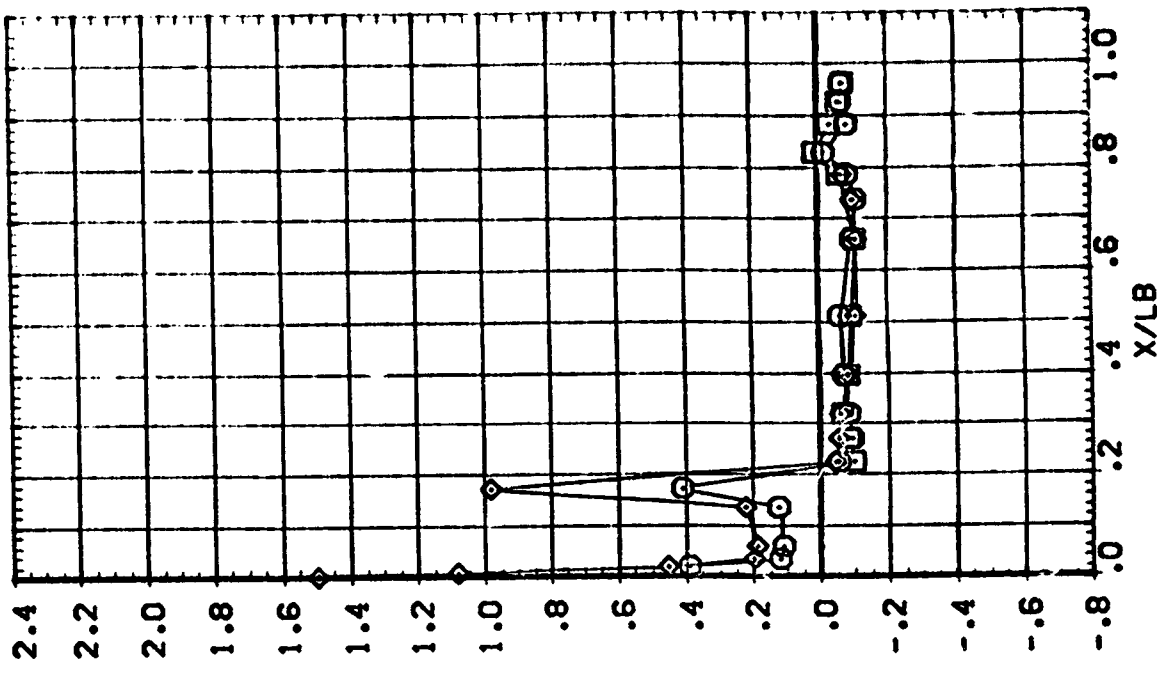
SYMBO: 70.000
 90.000
 170.000
 135.000
 BETAT 4.380
 8.690
 MACH 2.599



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

BUILDING UNIT VALUES
 ALPHAT 0.000 0.000 0.000
 RLODR -15.000 ELEVON
 RLOFLR .000

S-REF 0.0
 P-1 50.000
 BE-TAT 4.380
 MACW 2.999
 155.000
 8.680
 80.000

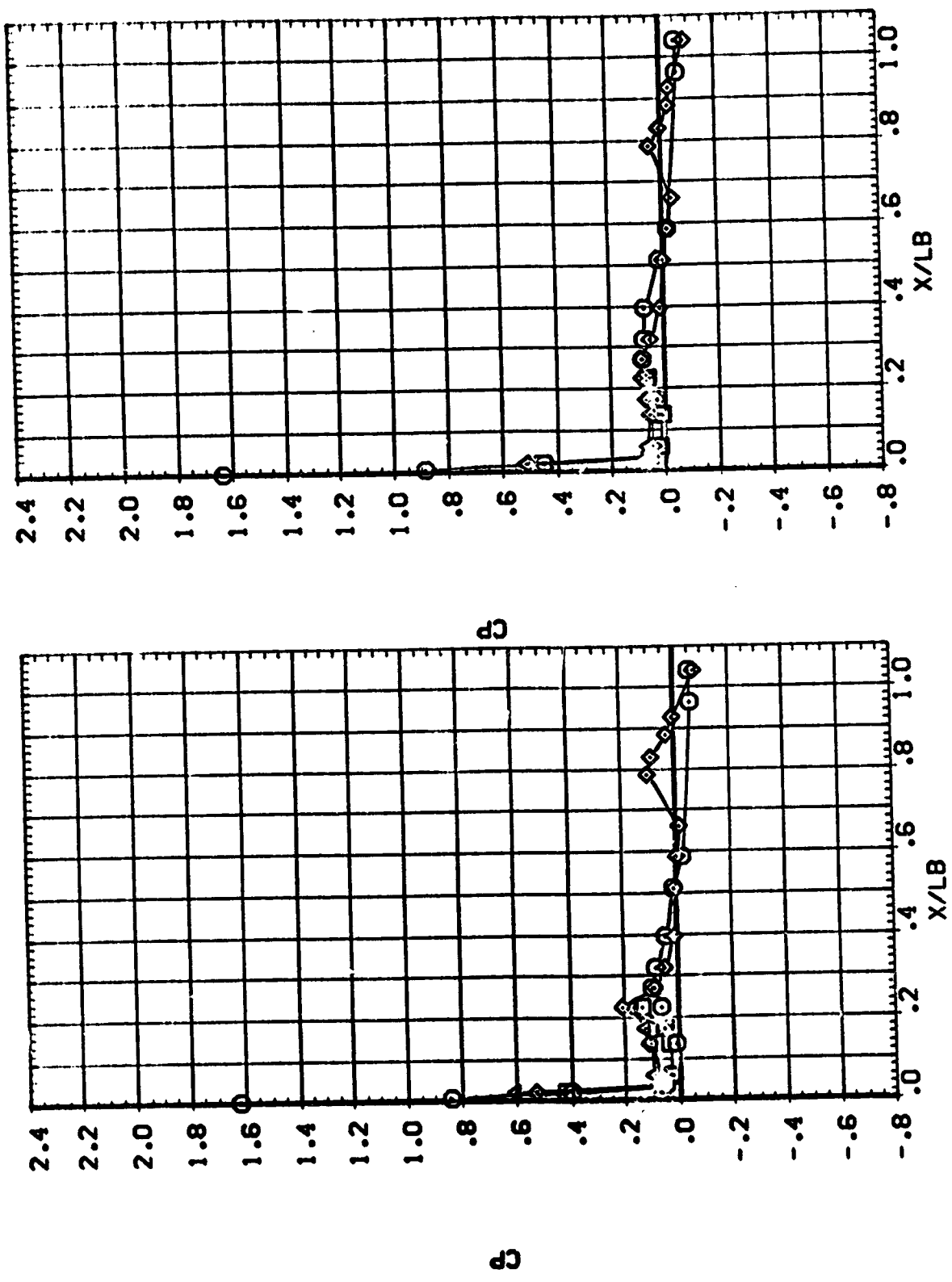


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

Symbol
 ()
 -
 ◇
 △

PHI BETAT MACH
 .000 -4.350 3.502
 70.000 .050
 40.000
 55.000

PARAMETRIC VALUES
 ALPHAT .000 99912C .500
 RJOER -15.000 ELEVON .000
 RJOFLR .000

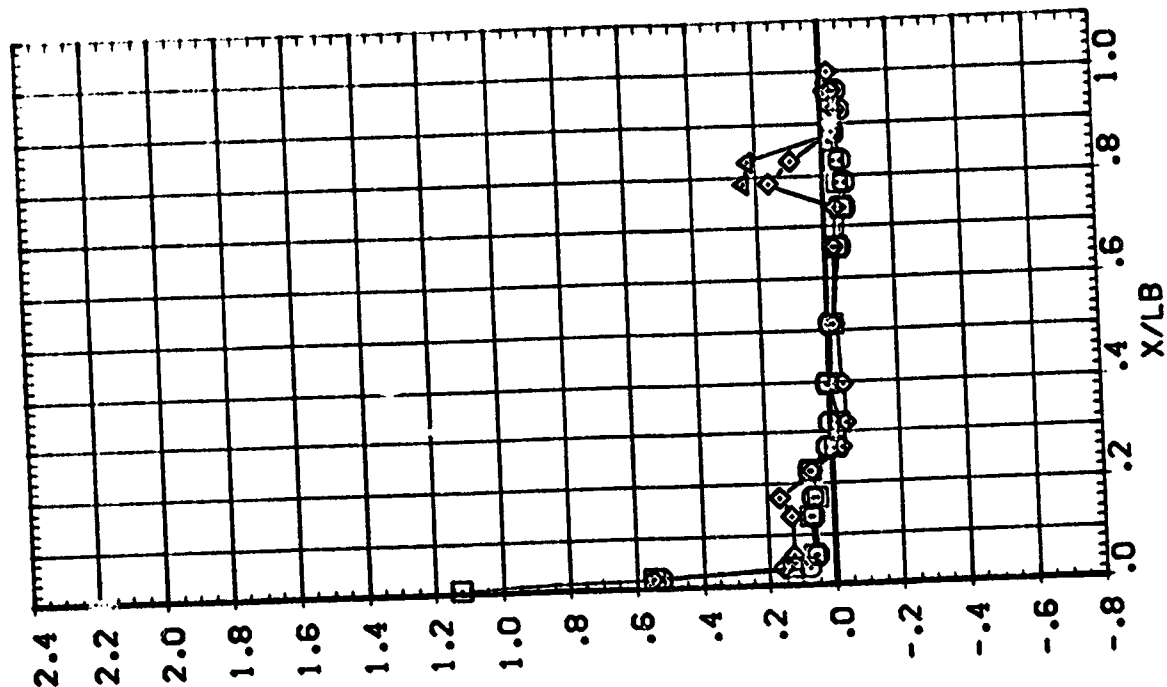


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

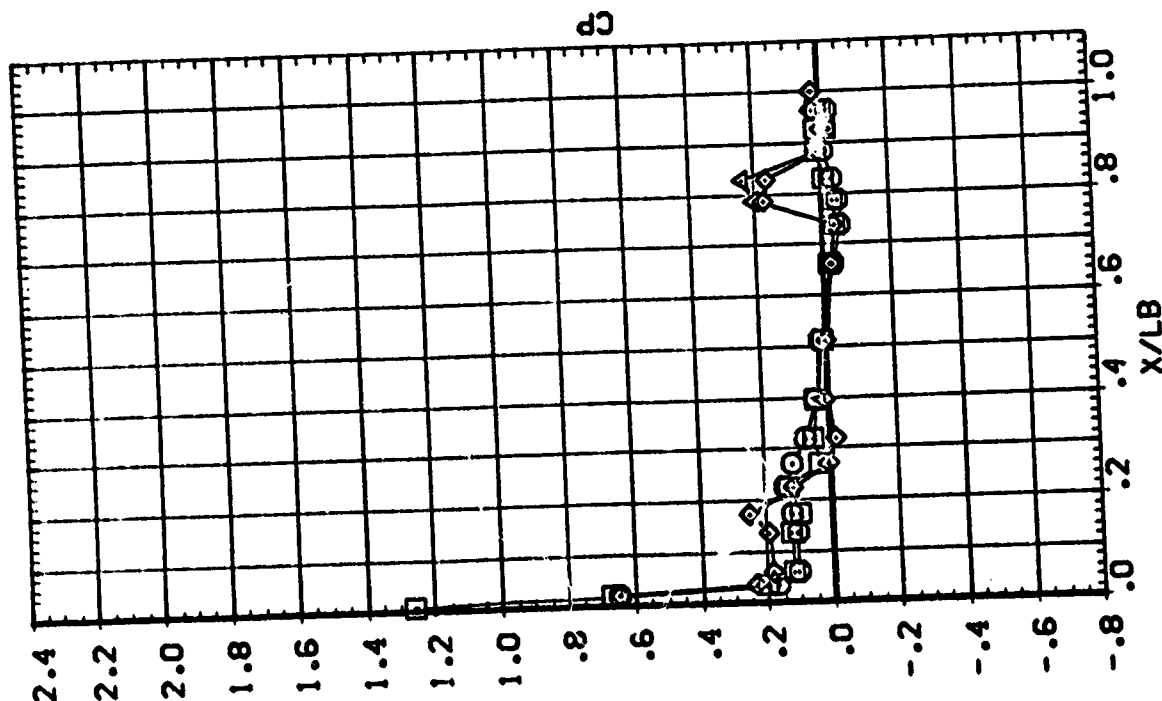
70.000
 90.000
 170.000
 130.000

3.500
 -4.350
 .350

70.000
 90.000
 170.000
 130.000



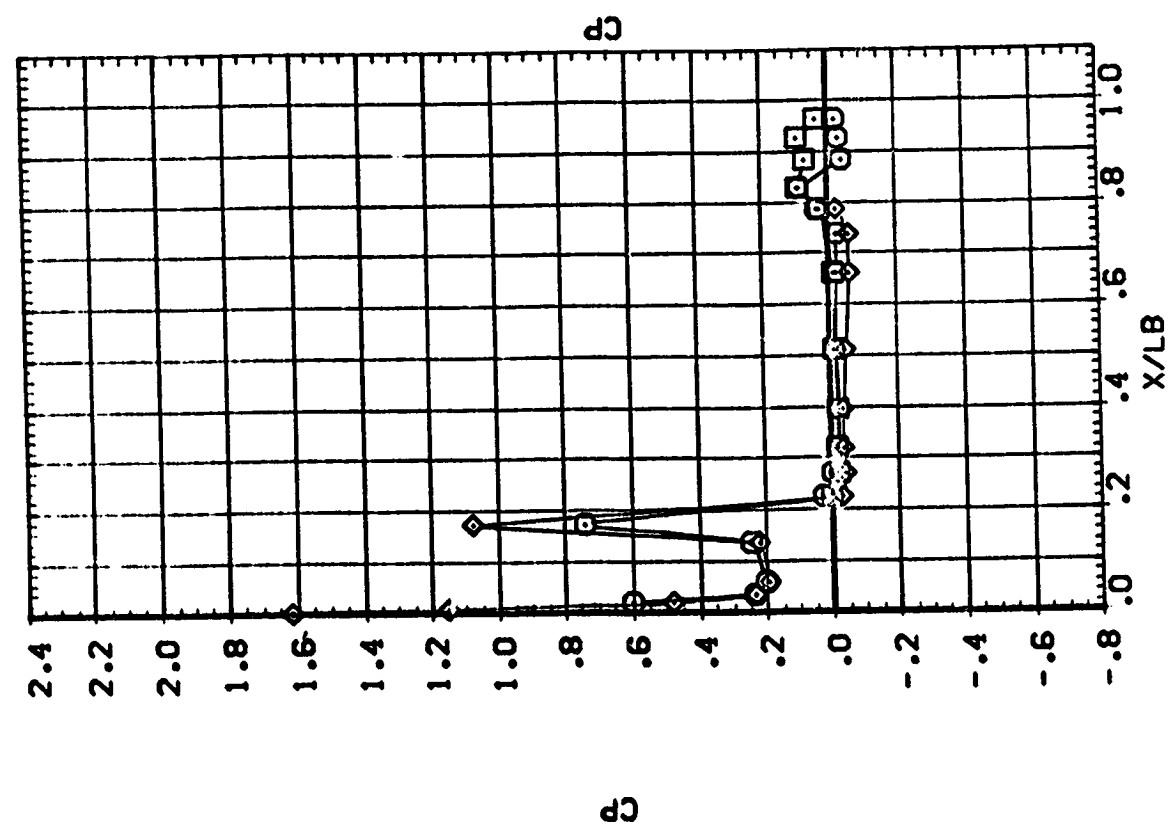
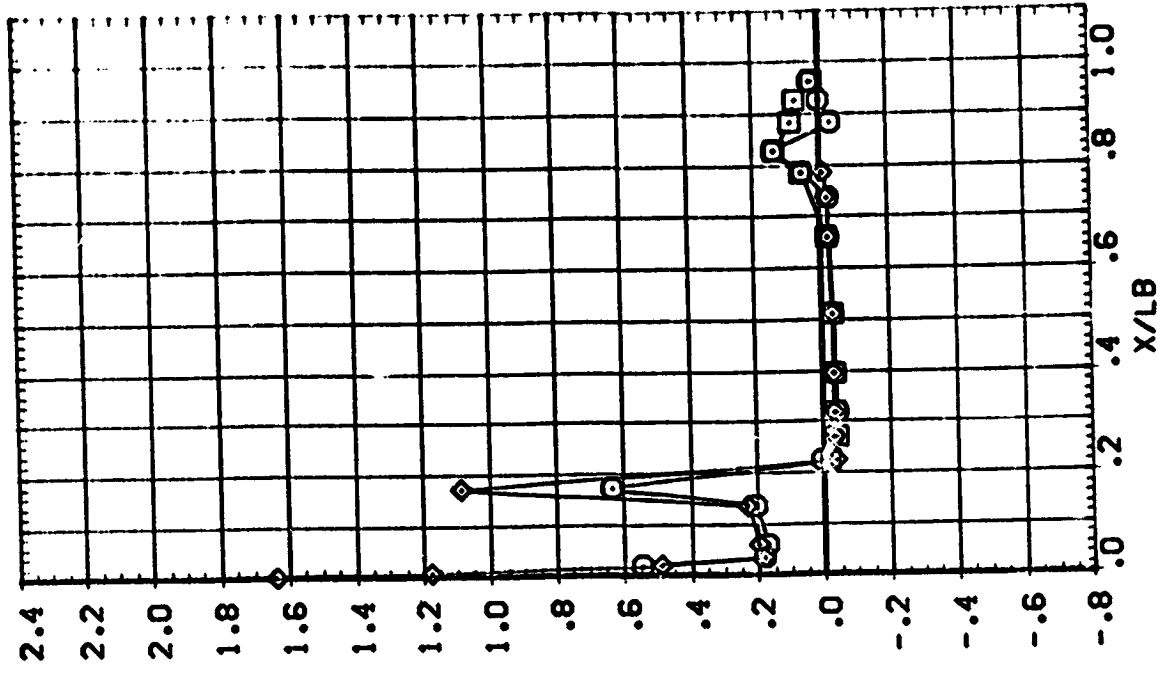
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



SYMBOL
□
○
◇

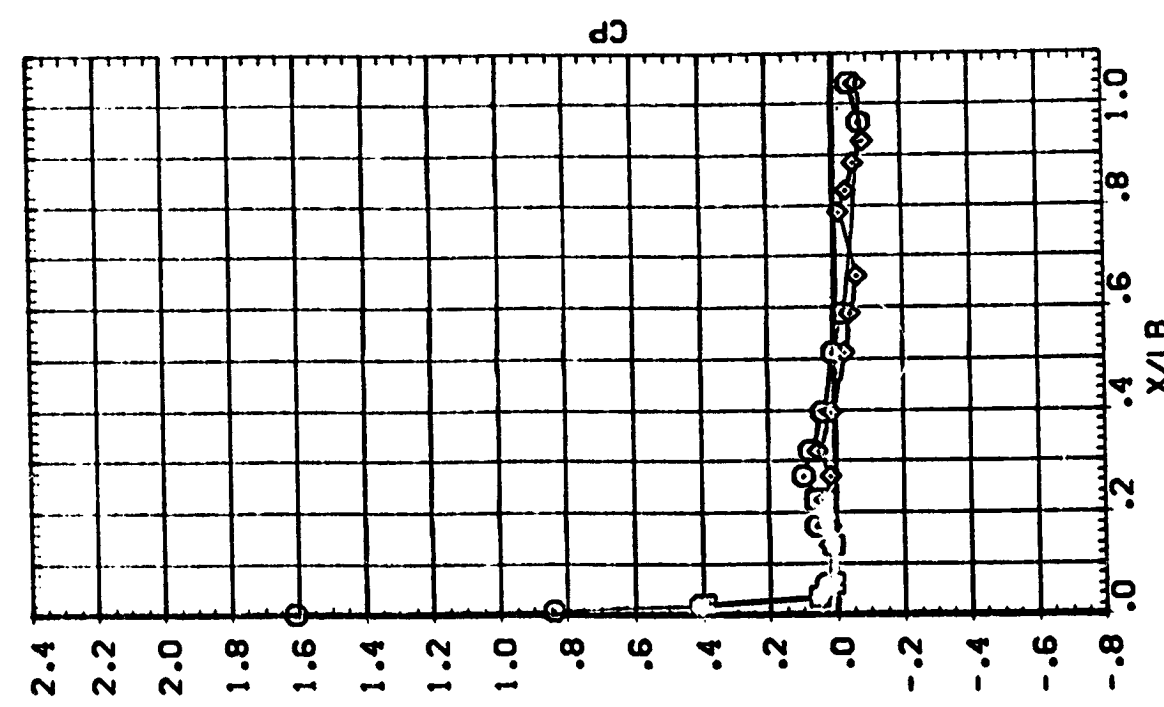
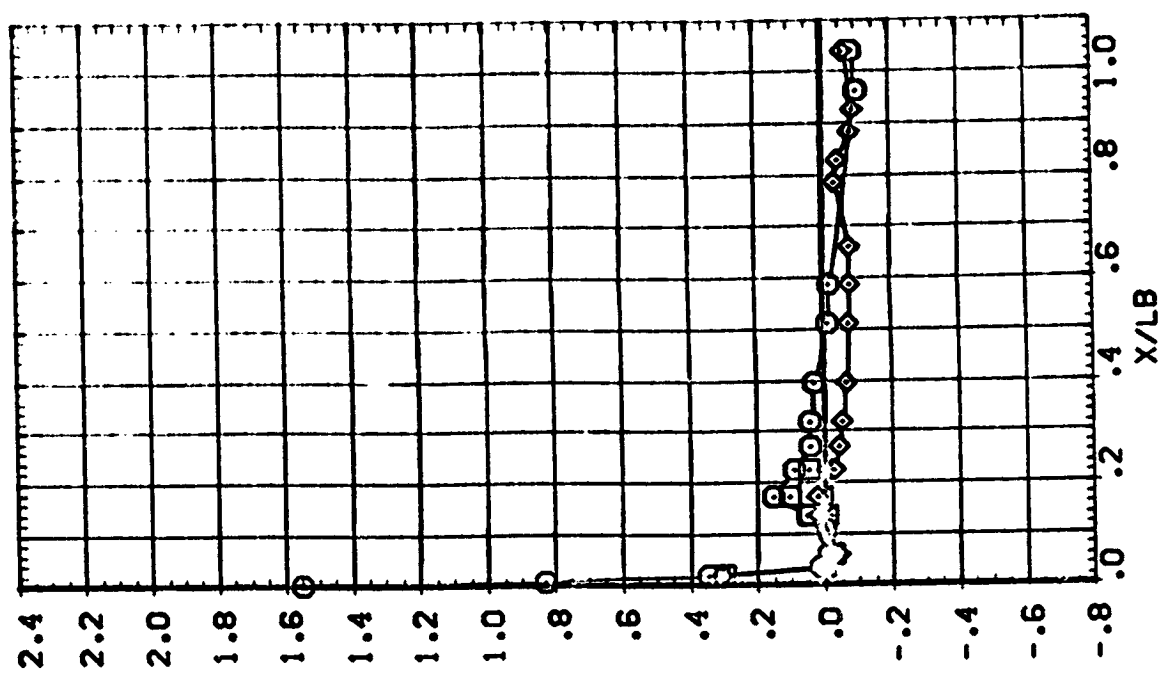
PA: 150.000
165.000
180.000

PARAMETRIC VALUES
ALPHA: .000
RUDER: -15.000
RDFLR: .000
ORBITING: .500
ELEVON: .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

ALPHAT: .000
 RUDDER: .000
 RUDDLR: .000
 BRACING VALVE: .000
 ORG: .000
 ELEV: .000



SMC: .000
 20.000
 40.000
 55.000
 BETAT: 4.45C
 8.81C
 MACH: 3.502

LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

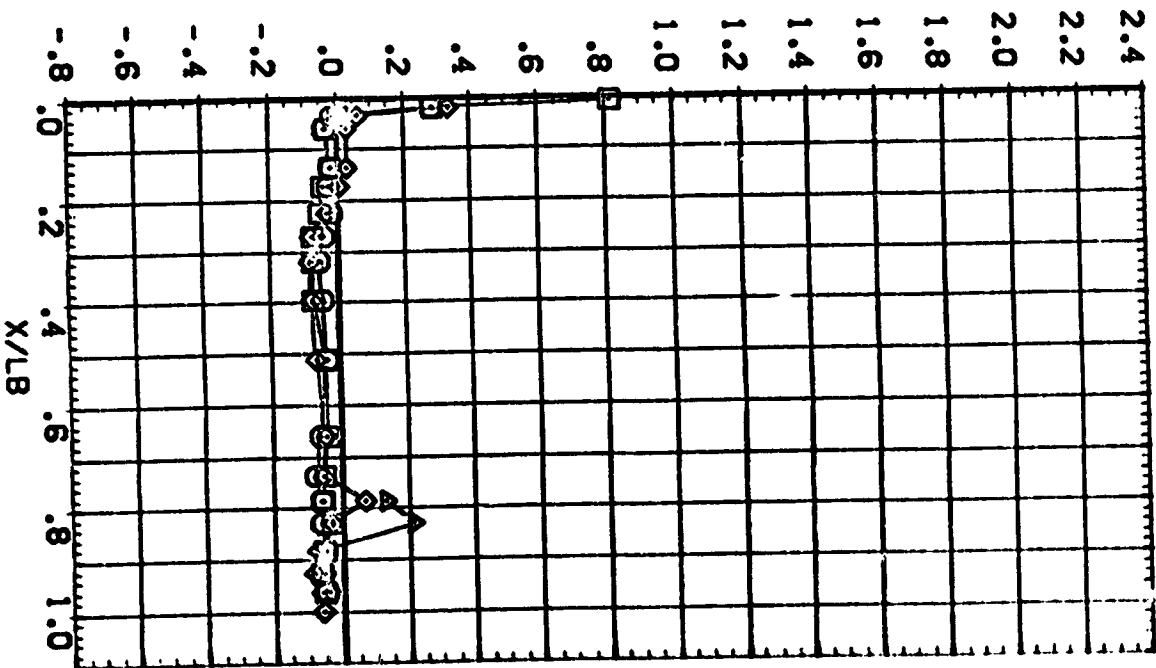
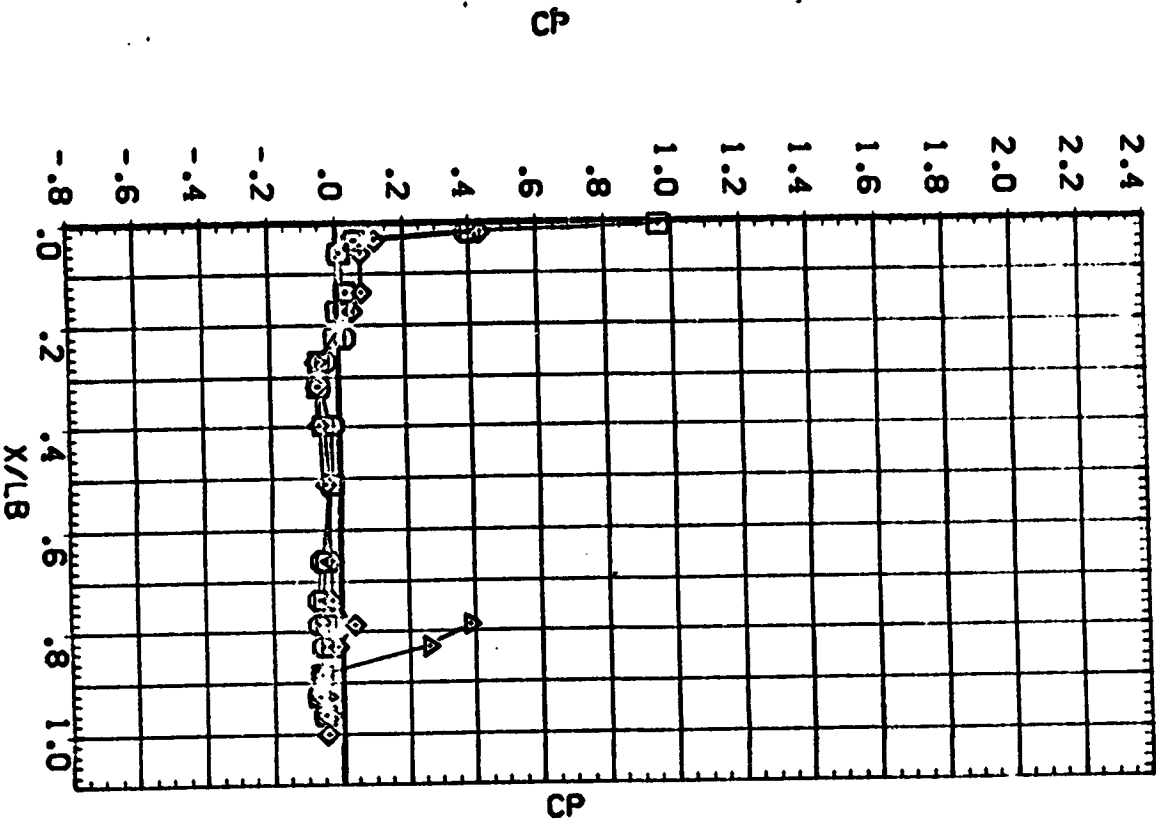
AVES 87-707 : A9 C2A + S3 + 19 CRBITER FUSELAGE (RBNB13)

SYNOPSIS
 O 70.000
 X 90.000
 Y 120.000
 Z 135.000

BETAT
 4.450
 8.810

PARAMETRIC VALUES
 ALPHAT .000
 RUDER -15.000
 ROLLR .000

305
 .005



AVES 87-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBNB13)

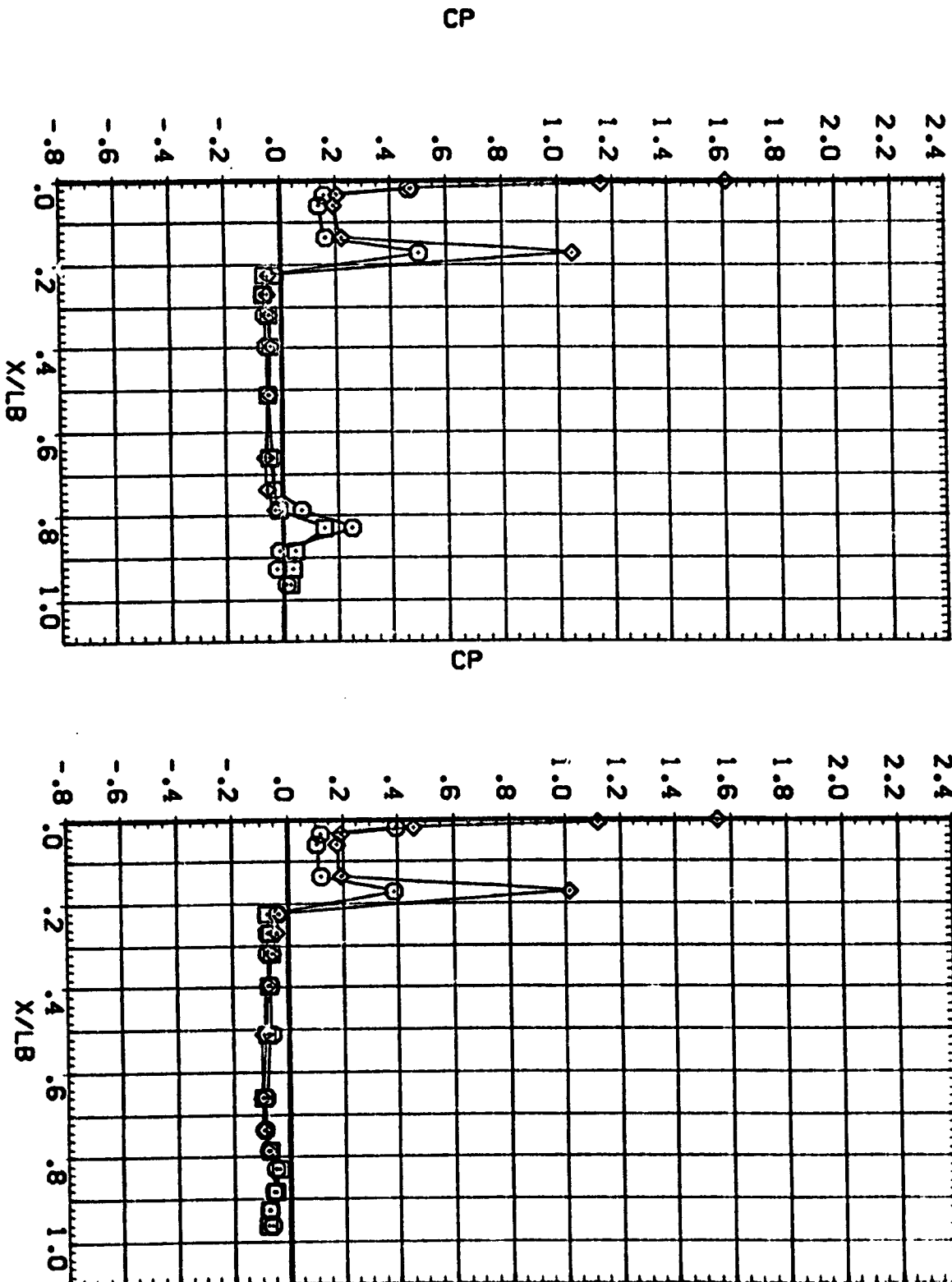
SYMBOL
 O :50.000
 □ :65.000
 ◇ :80.000

PHI
 4.450
 8.840

BETA1
 3.502

PARAMETRIC VALUES
 ALPHA1 :000
 RUDER -15.000
 ROLLER :000

DBINC
 ELEVON
 :000



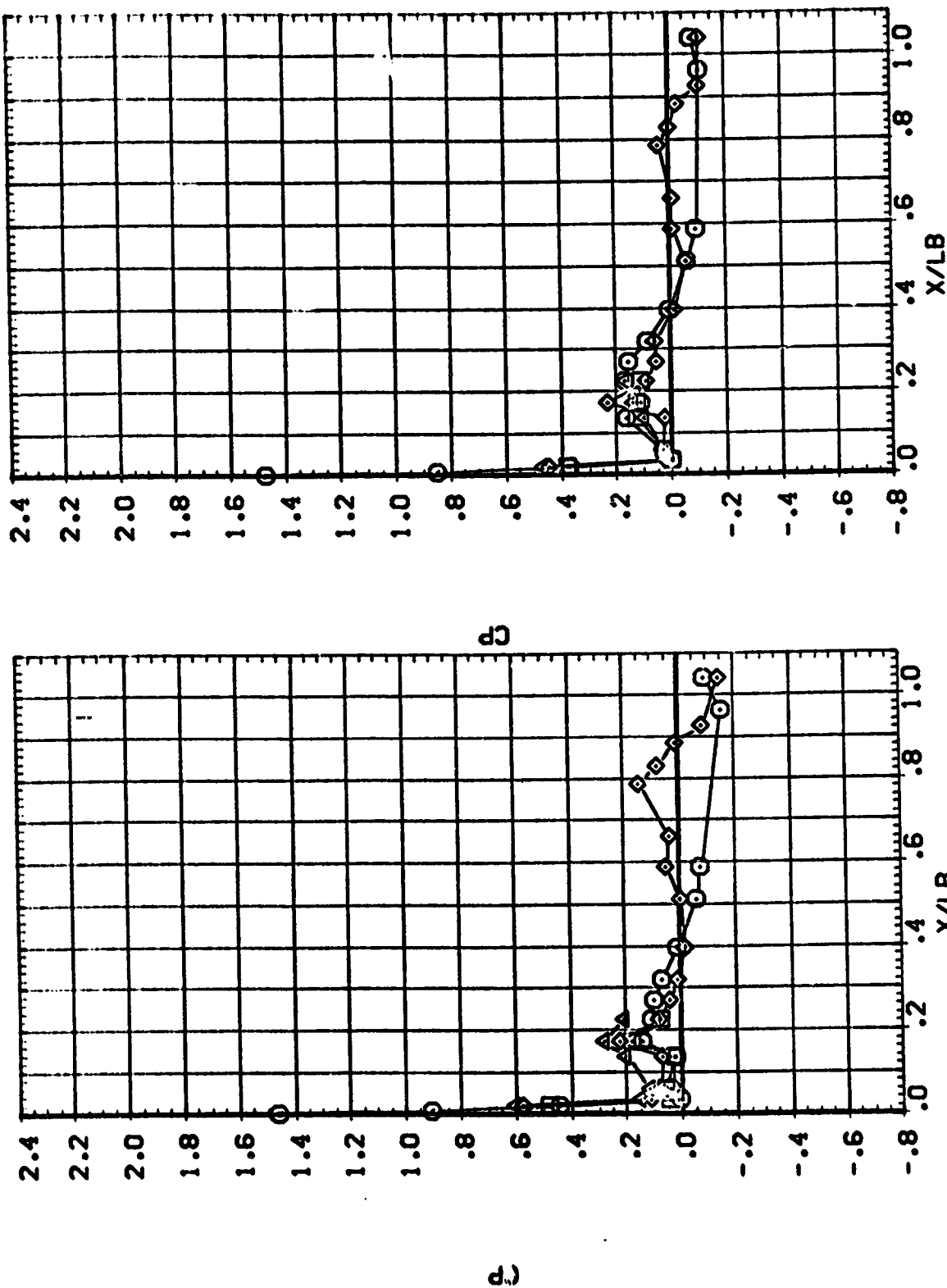
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AYES 87-707 1A9 32A + S3 + 19 ORBITER FUSELAGE (RBNB19)

SYMBOL
 ○ 0.000
 ◇ 20.000
 △ 40.000
 △ 55.000

PHI .000
 BETAT -4.180
 MACH 2.499
 .000

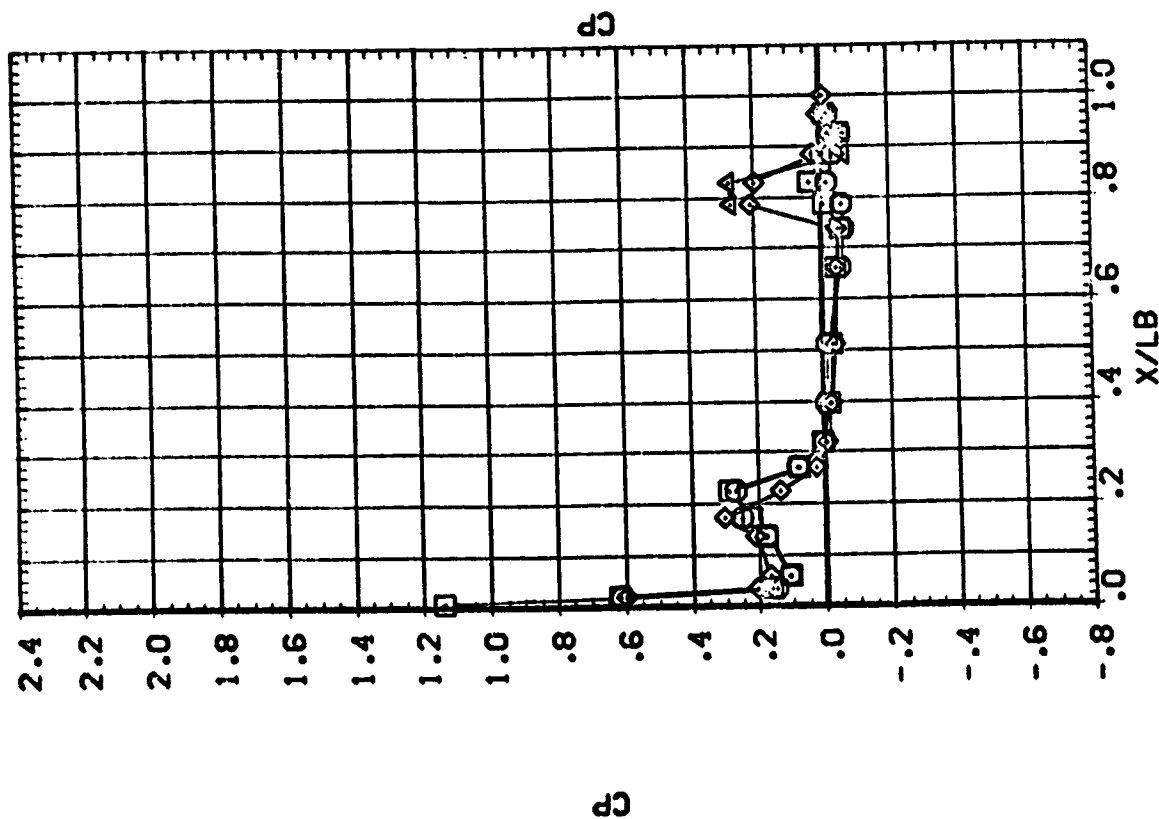
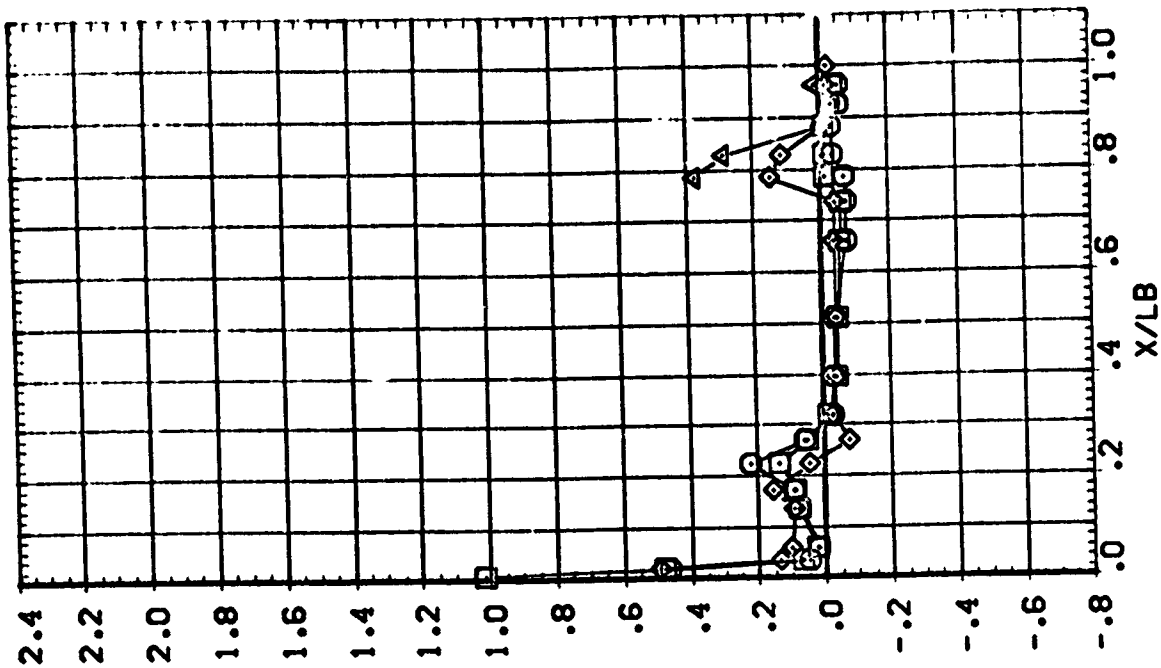
PARAMETRIC VALUES
 ALPHAT .000
 RUDER -10.000
 RUDFLR .000
 ORBIT NC
 ELEVN .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

ALUMINUM .000
 RUDER -10.000
 RUDER .000
 ELEVON .000
 ELEVON .000

70.000 2.499
 90.000 -4.180
 120.000 .060
 130.000



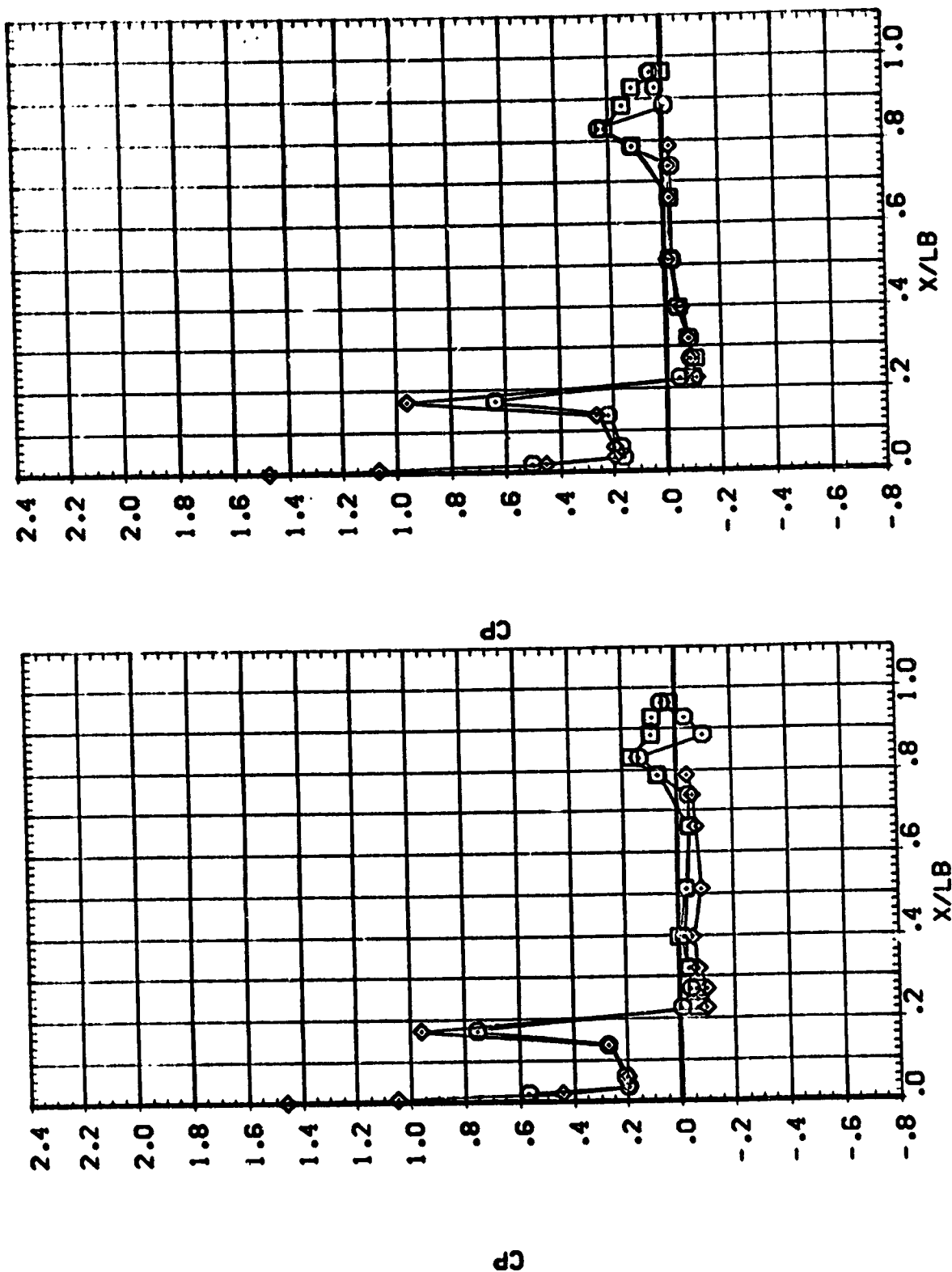
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-7C7 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBNB19)

S_{REF}
 :50.000
 :65.000
 :80.000

BETAT MACH
 -4.180 2.499
 .560

PARAMETRIC VALUES
 ALPHAT .000 3981C
 RUDDER -10.000 ELEVEN
 RUOTLR .000

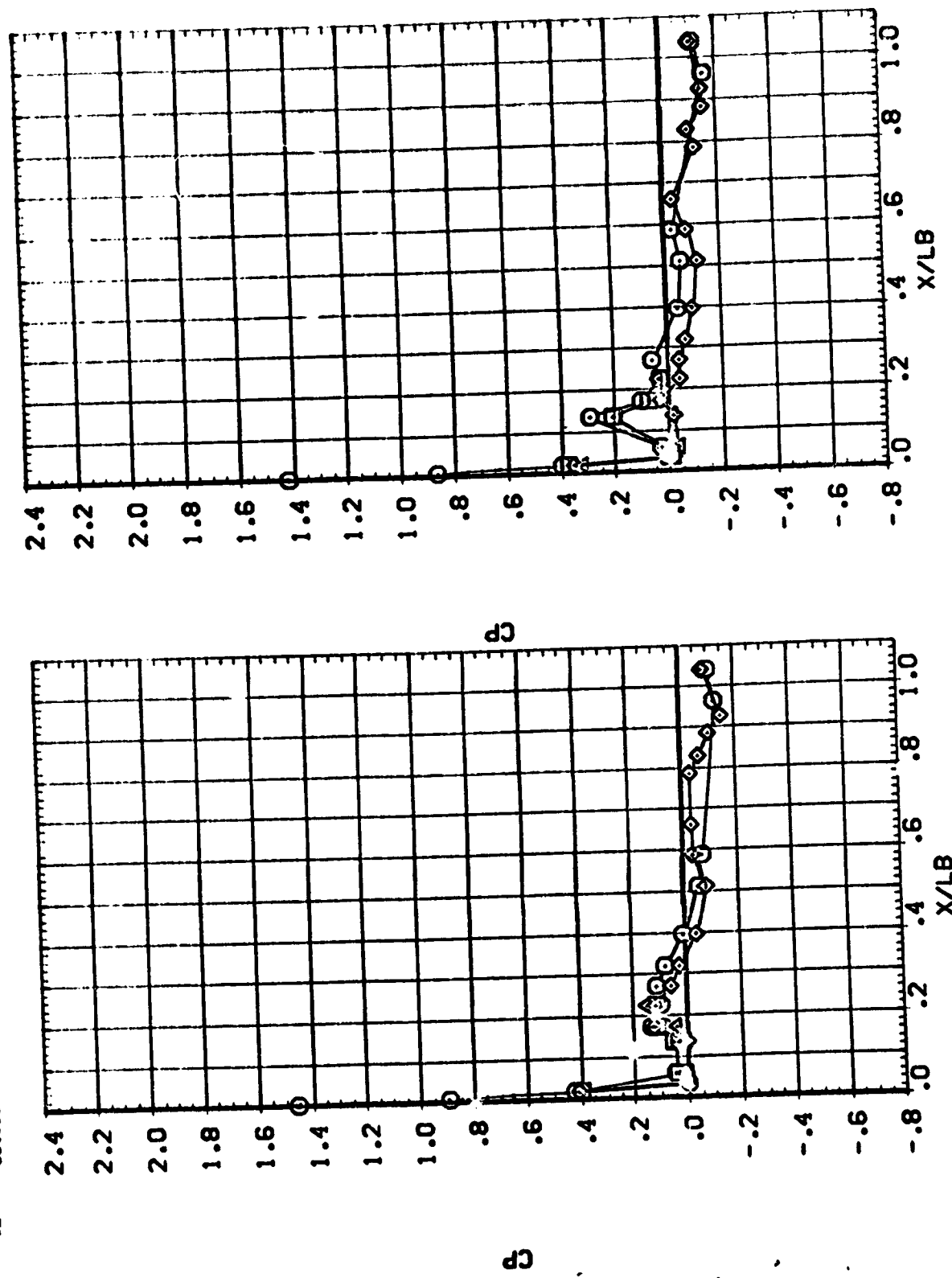


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

SYMBOL
 ()
 O
 Δ

BETA: 4.300 2.499
 MACH: 8.550

PARAMETRIC VALUES
 ALPHA: .000 .000 .500
 RUDDER -10.000 .000
 RUFLR .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 1A9 C2A - S3 + 19 ORBITER FUSELAGE (RBNB19)

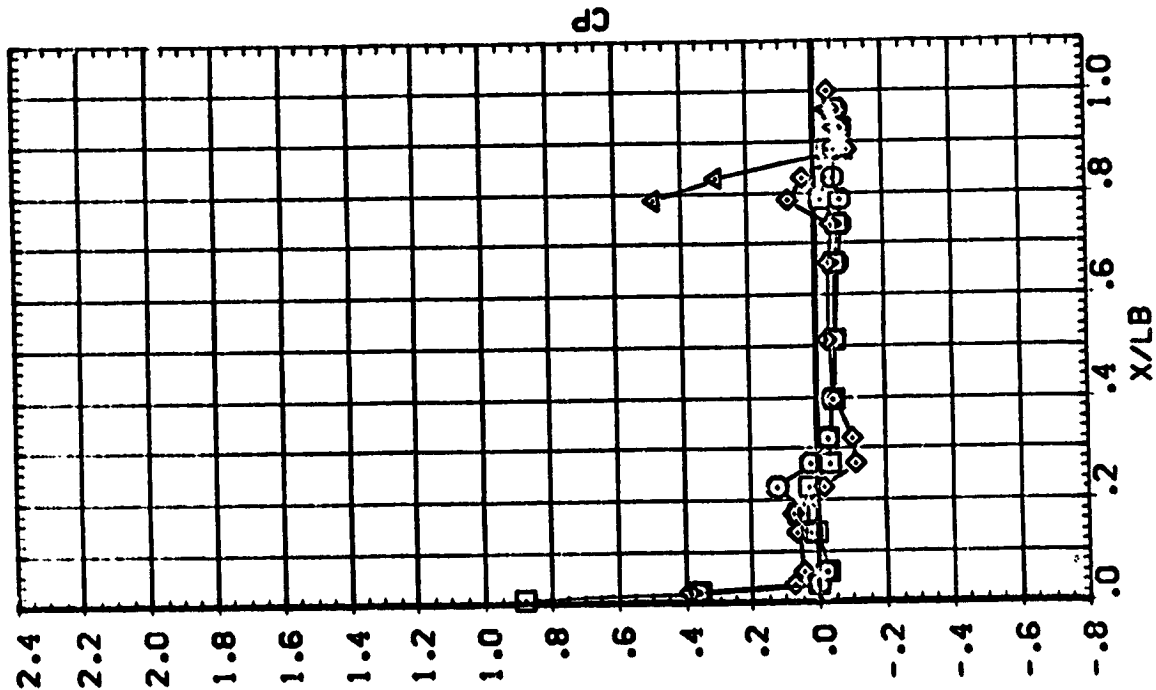
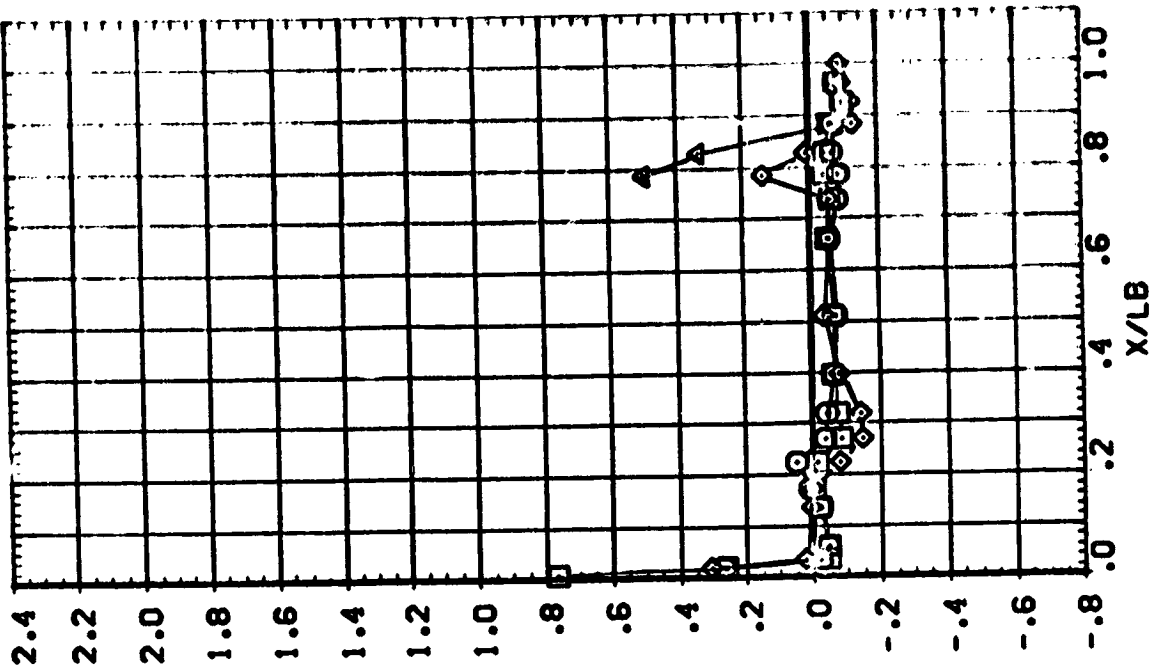
S-80
 ()
 ◇
 △

Re: 70.000
 90.000
 120.000
 135.000

BETA: 4.300
 8.550
 MACH: 2.459

PARAMETRIC VALUES
 ALPHAT .000 999.0
 RUDDER -.00000 ELEVON
 RUOFLR .000

.500
 .000

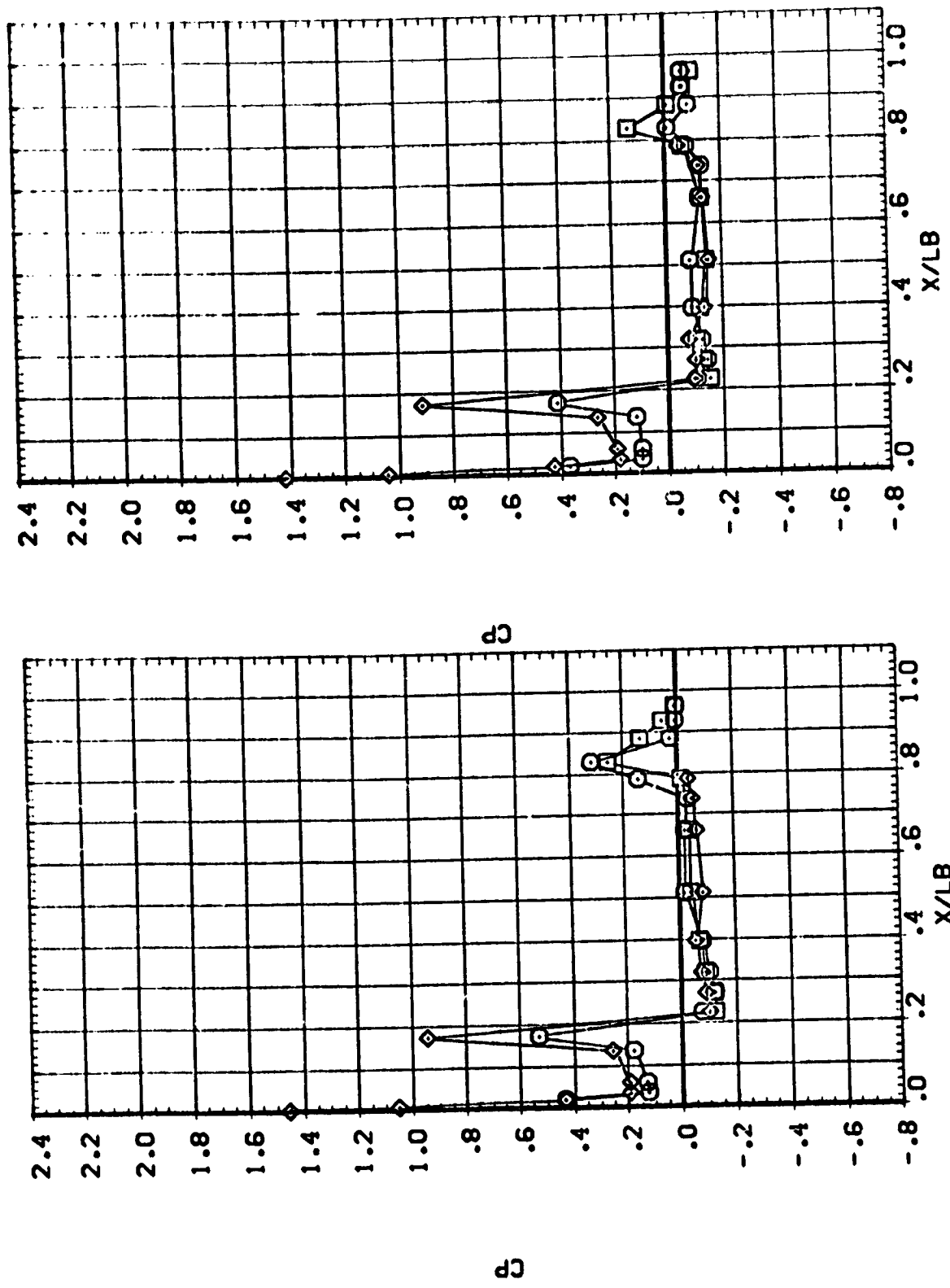


90

90

LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

SYMBOL	PHI	BETA	MACH	ALPHA	PARAMETER VALUES
()	150.000	4.300	2.499	0.000	999.00
○	165.000	8.550		-10.000	ELEVATION
◇	180.000			0.000	



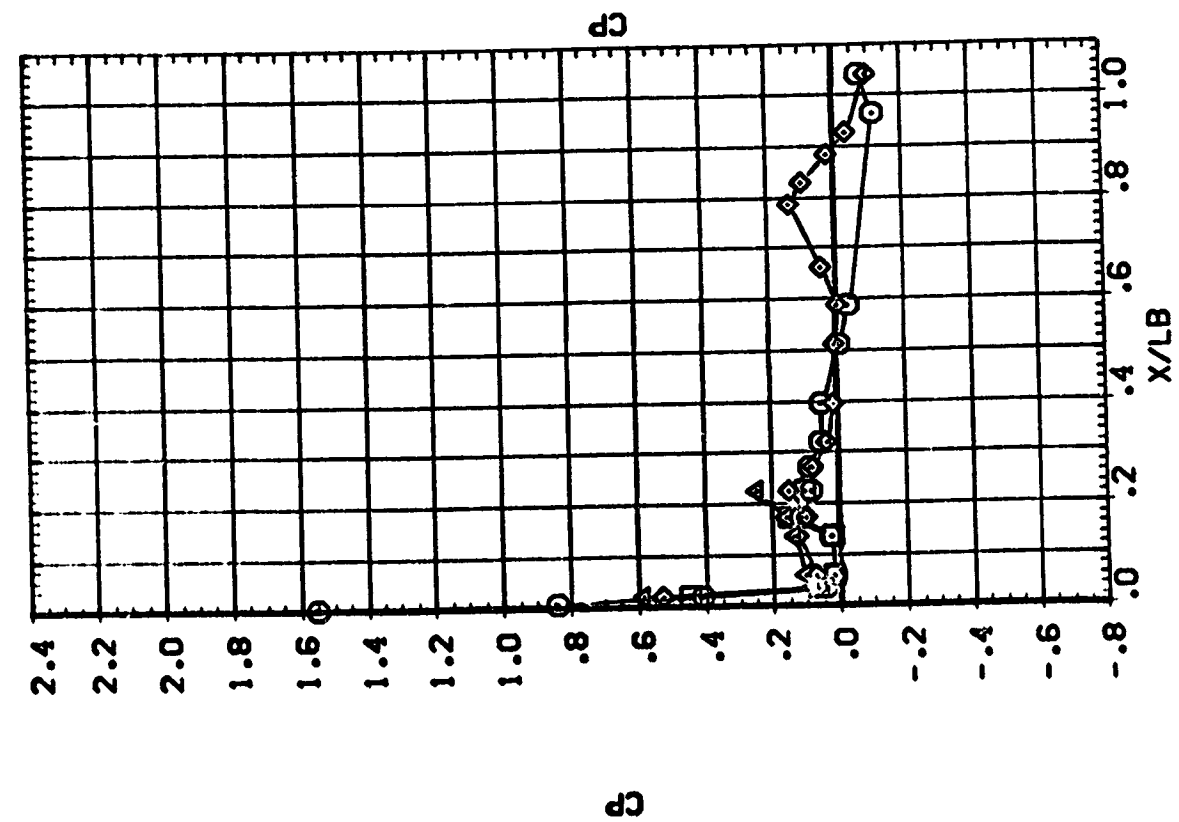
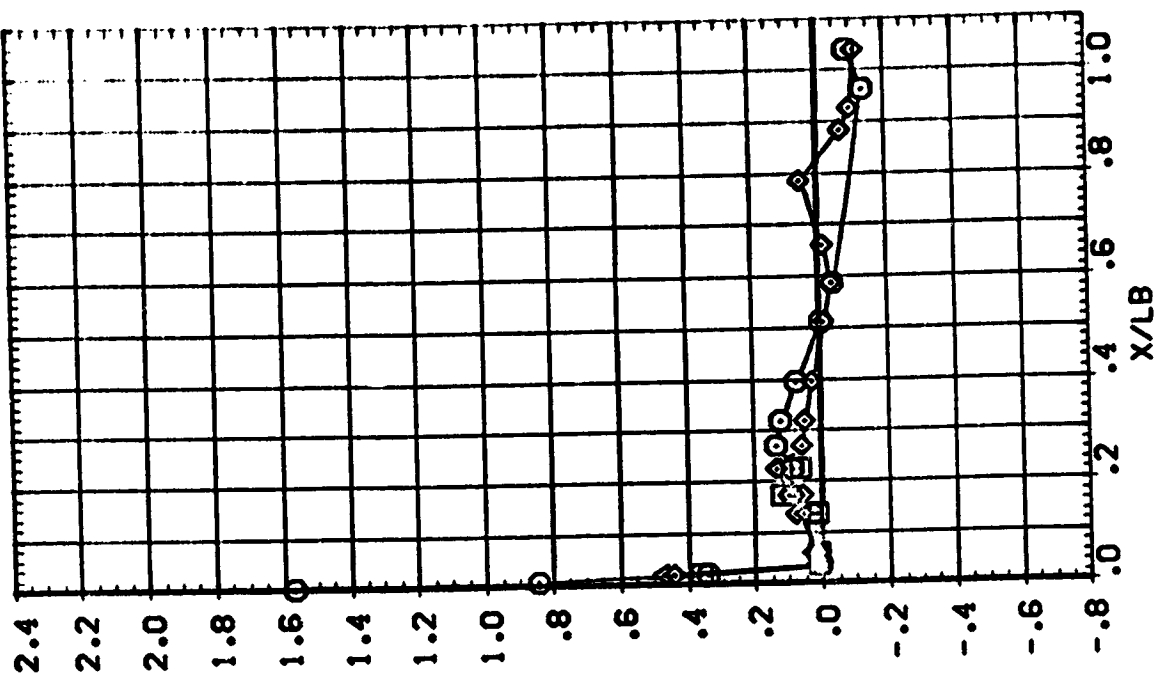
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

ALPHAT .000 ORBITC .500
 RUDDER -10.000 ELEVON .000
 RUOFLR .000

BETA -4.260 PACH 2.999
 .060

PH: .000
 20.000
 40.000
 55.000

SYMBOL
 ○ □ ◇ △

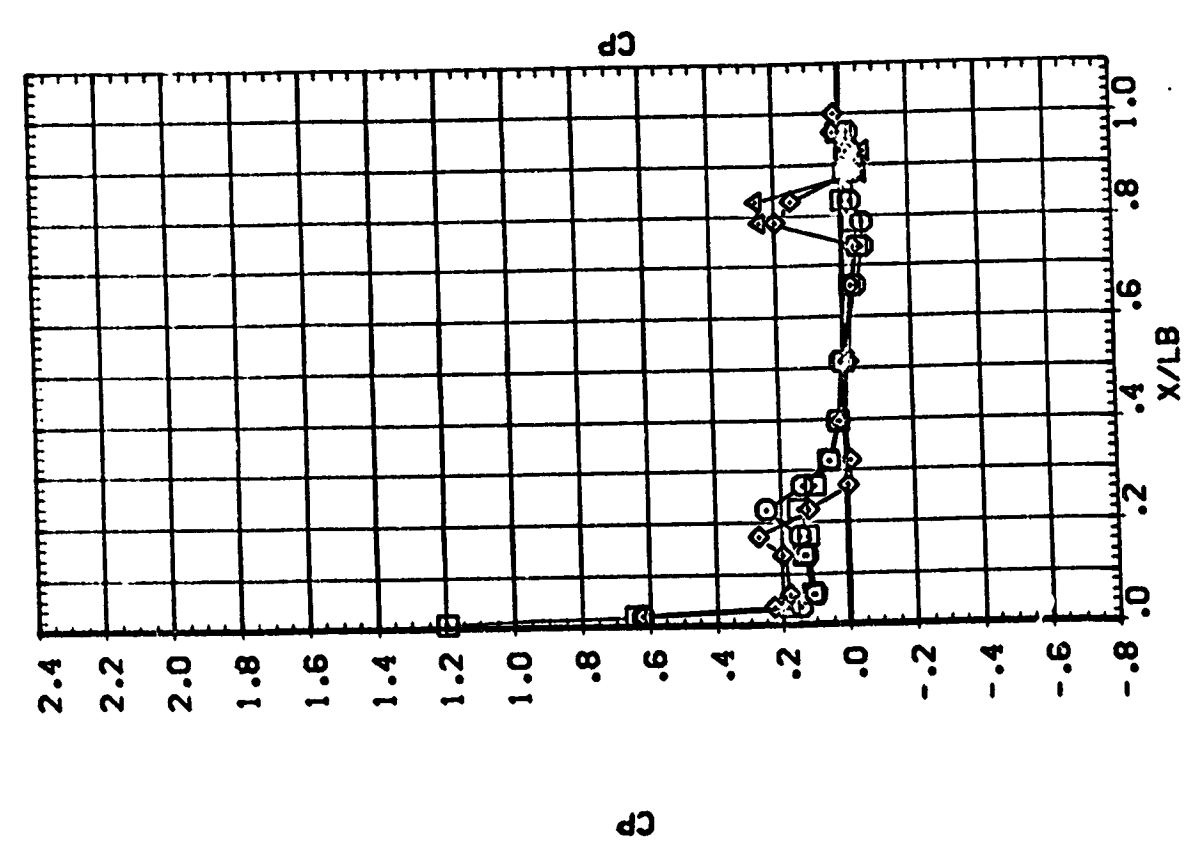
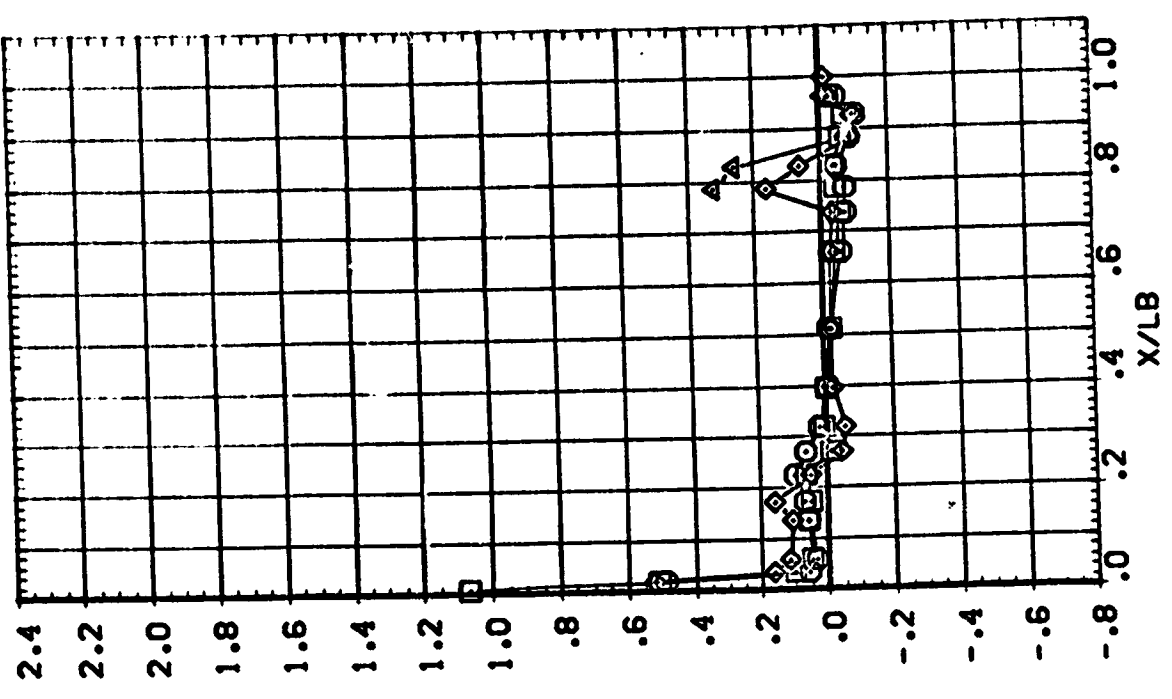


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

RUDER -10.000
 RUDFLR .000
 ELEVSN

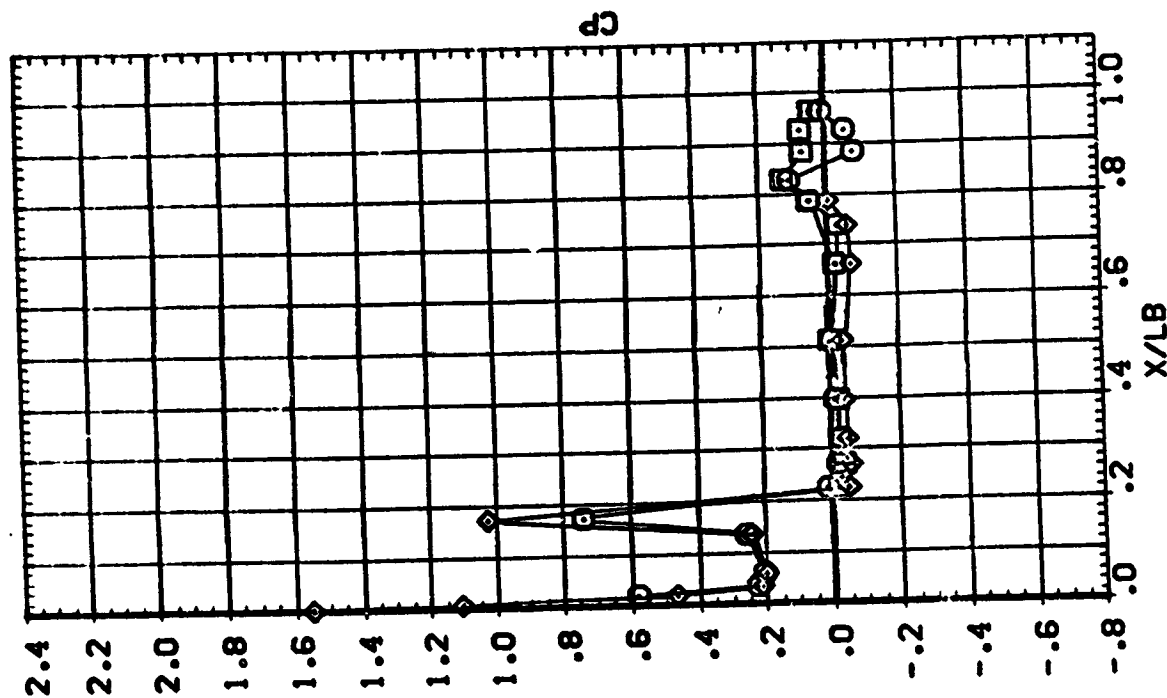
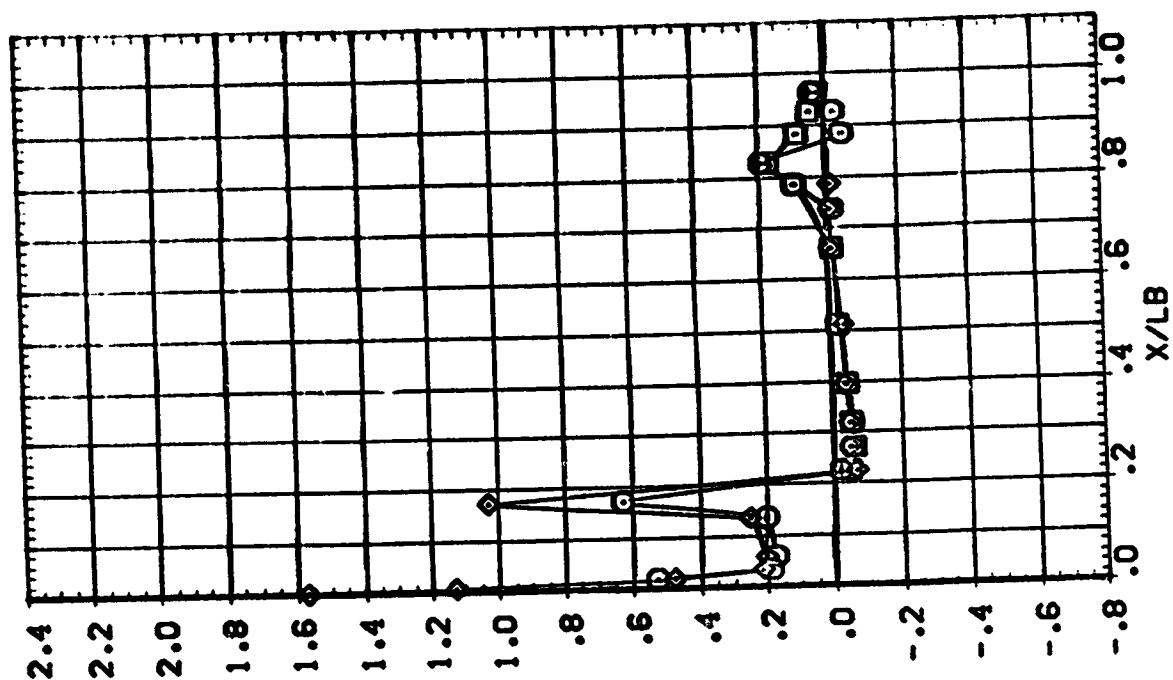
75.000
 90.000
 170.000
 135.000
 -4.760
 2.999
 .560

O
 ◇
 △

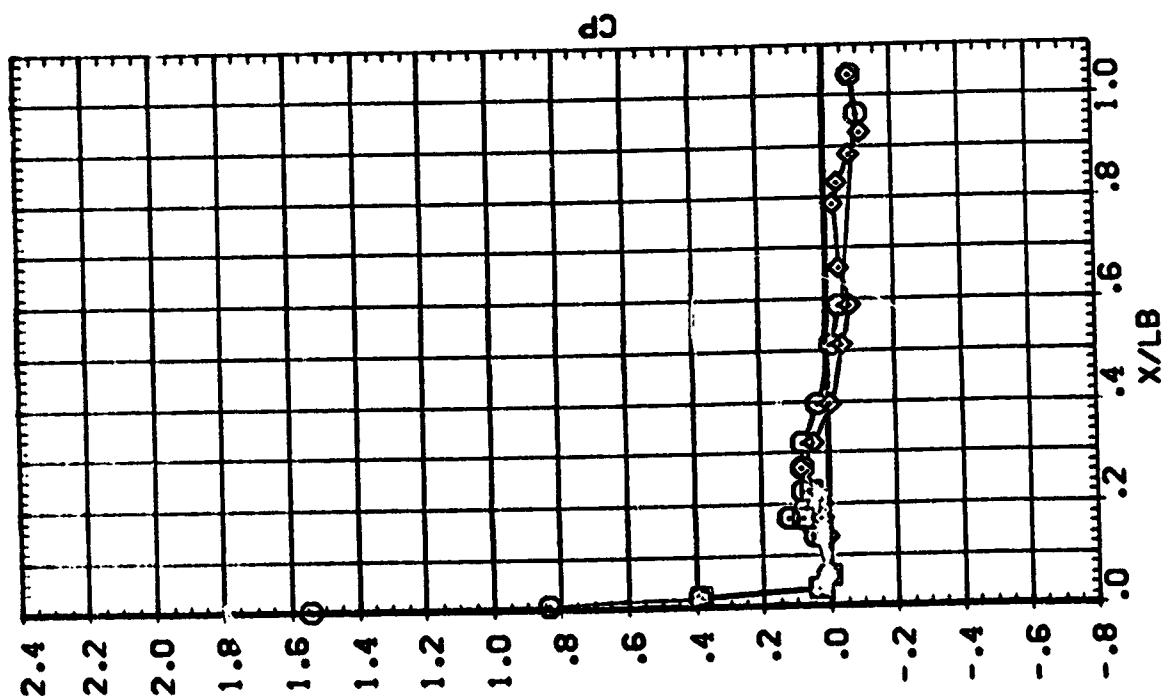
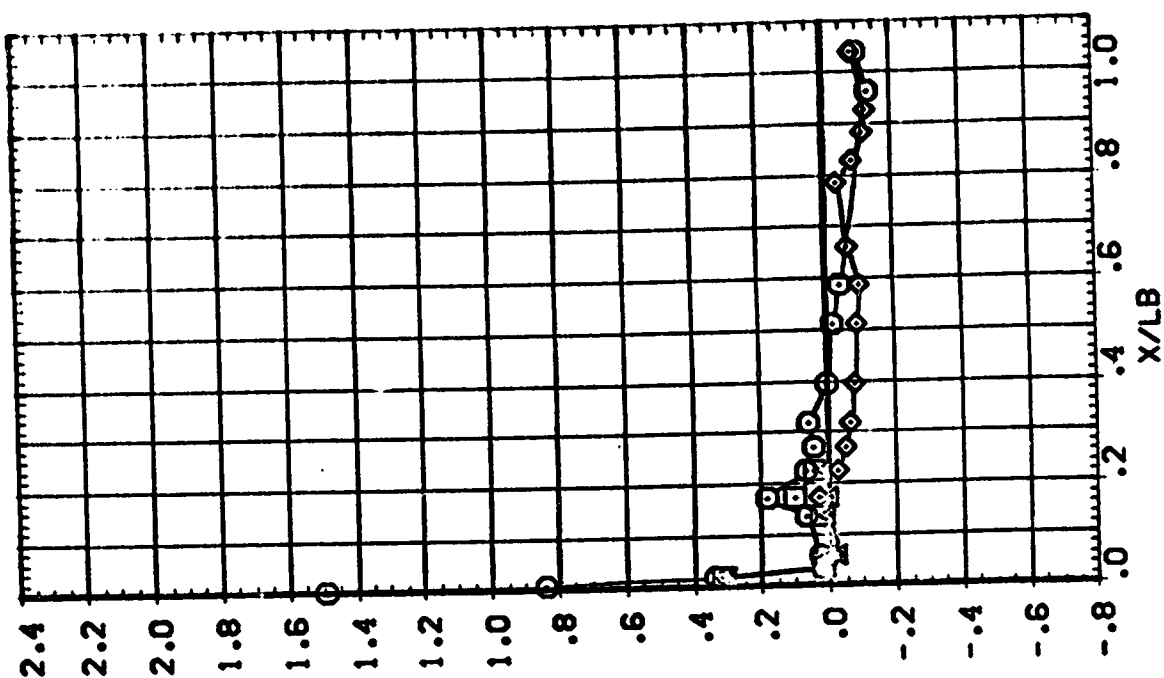


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

PARAMETRIC VALUES
 ALPHAT 1.000' ORBINC
 RUDDER -10.000 ELEVON
 RUOFLR .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



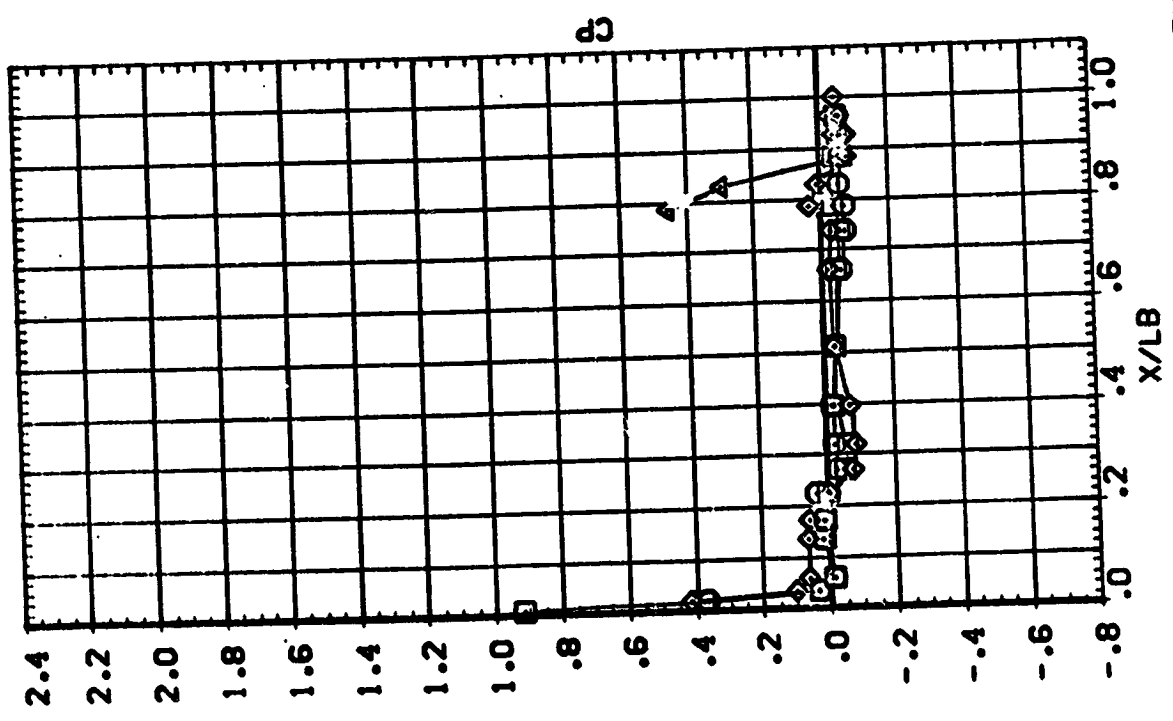
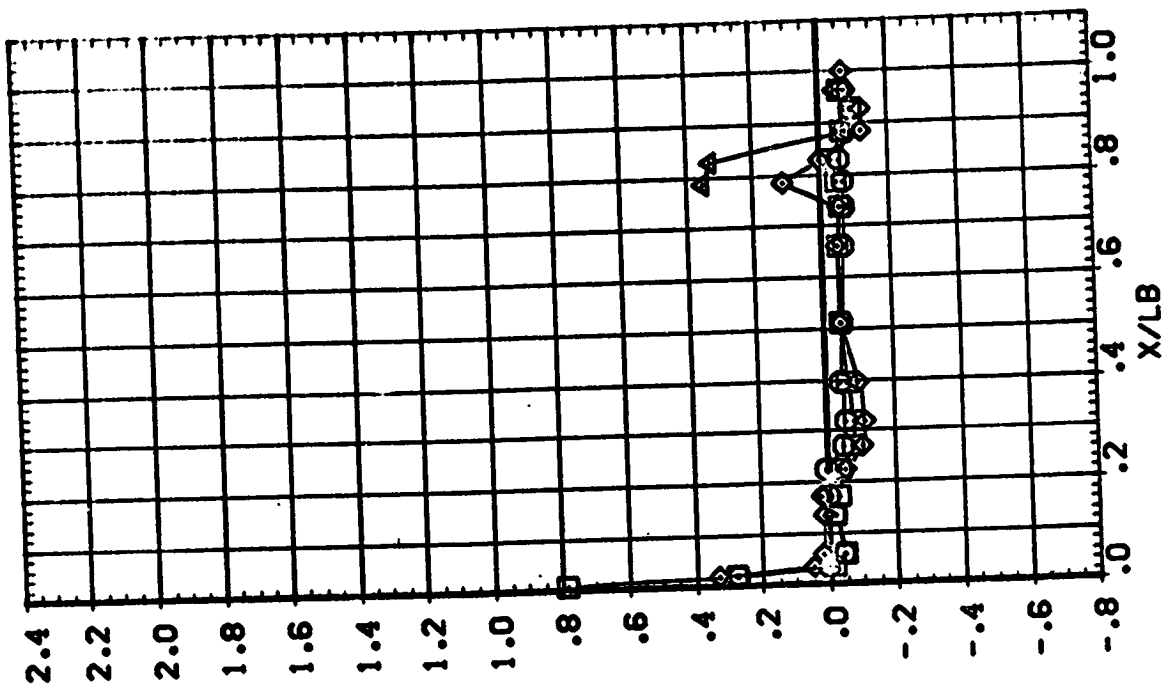
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

10-5 87-107 10 0001 0

SYMBOL
 O
 □
 ◇
 △

PHI BETAT MACH
 70.000 4.380 2.999
 90.000 8.710
 120.000
 150.000

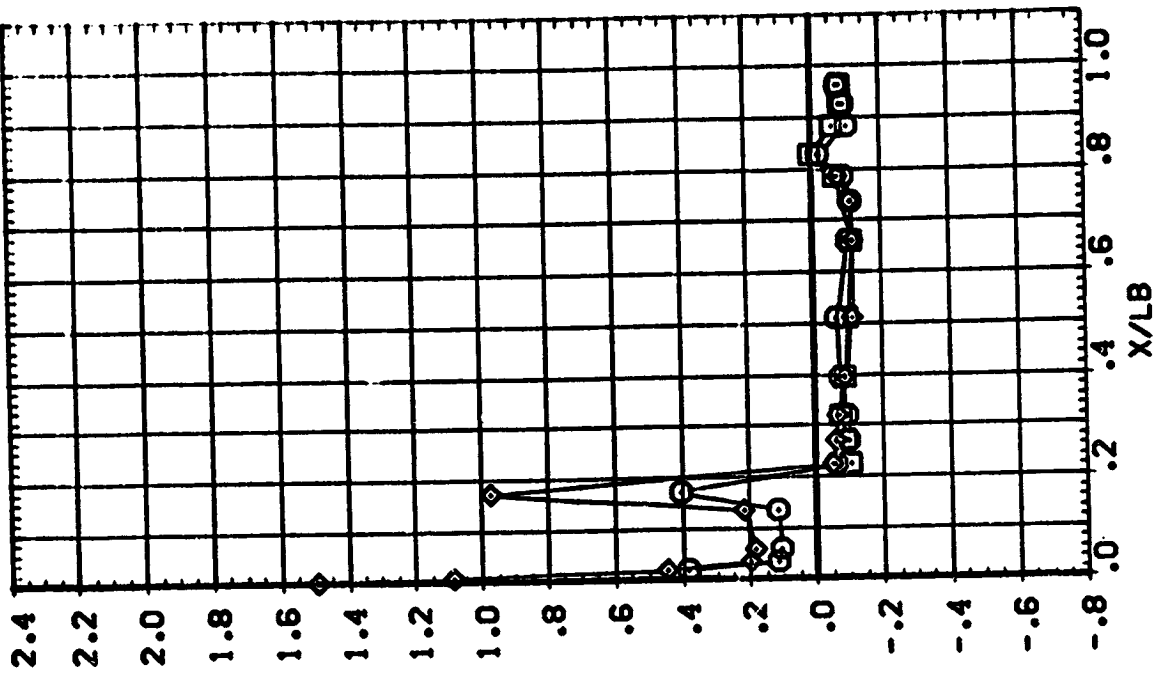
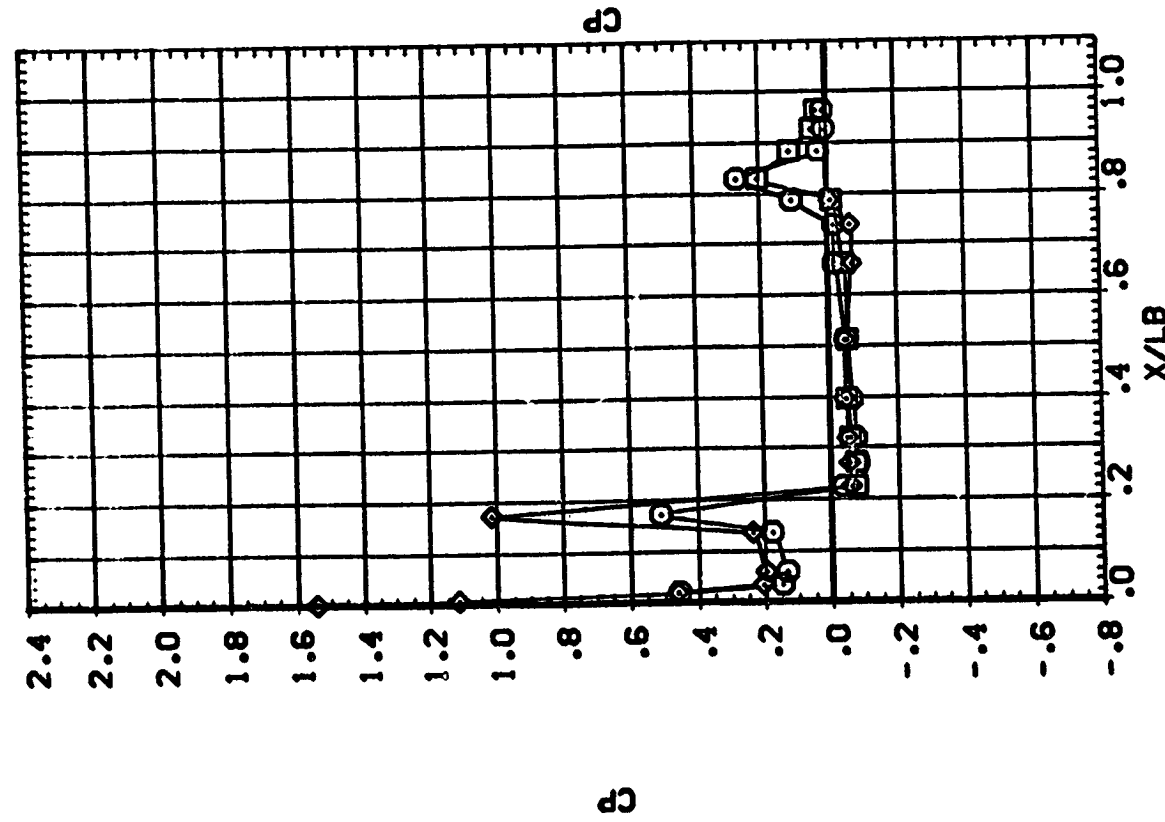
PARAMETRIC VALUES
 ALPHAT .000 ORBITAL .500
 RDOER -10.000 ELEVON .000
 RDOELR .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

165.000 0.7:0
180.000

165.000
180.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

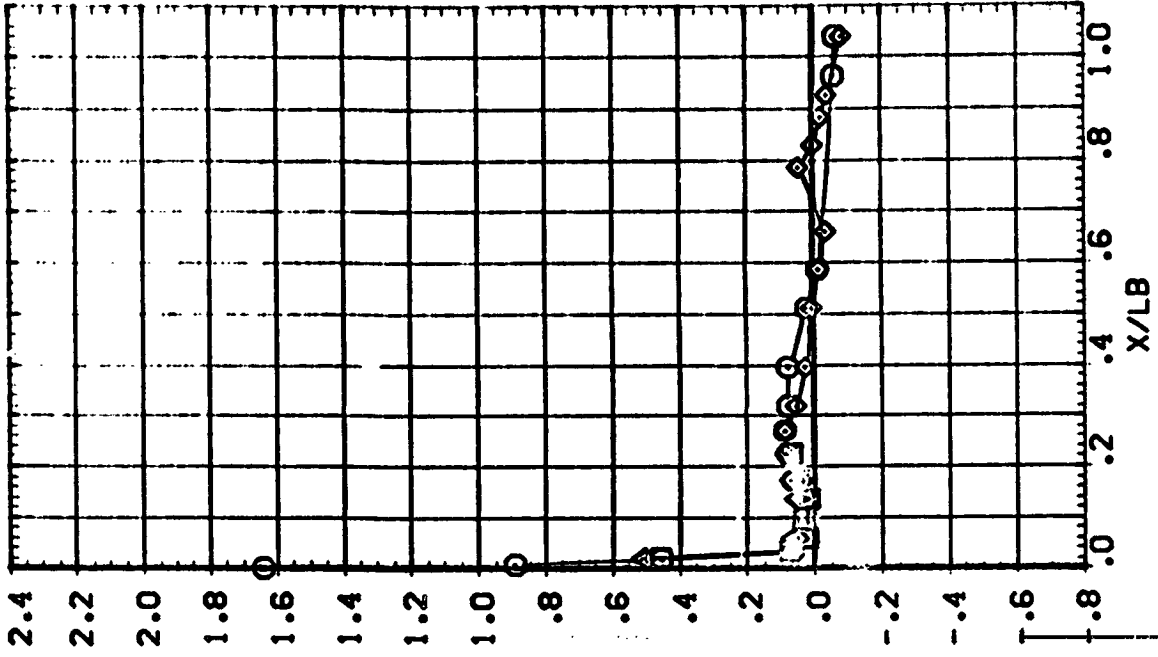
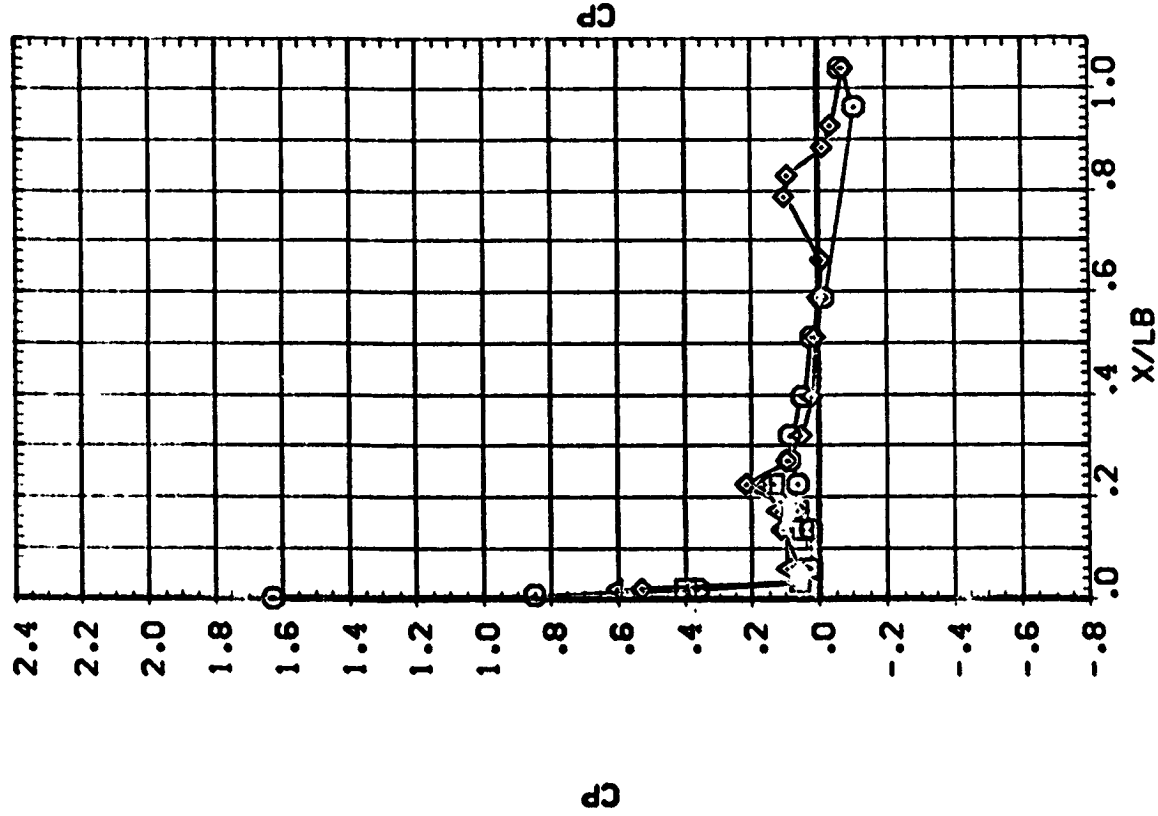
SWBC

0
1
2
3

BEAT MACH
-4.340 3.502
.060

PARAMETRIC VALUES
ALPHA: .000
RUDER: .000
ELEVON: .000

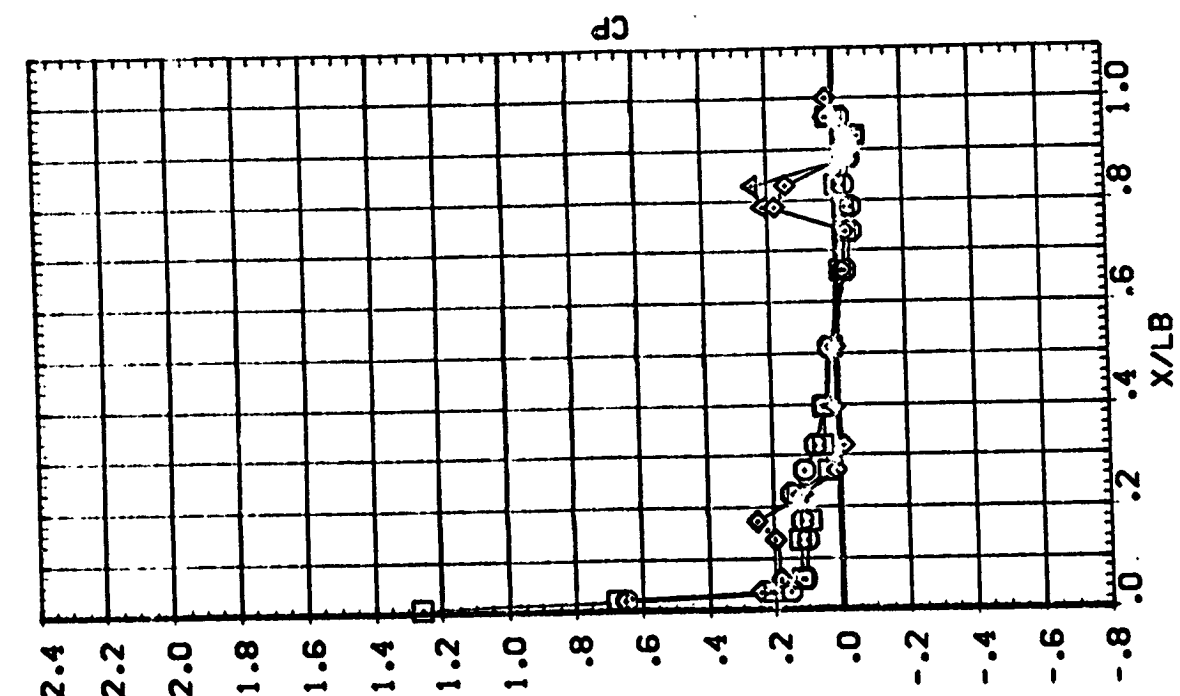
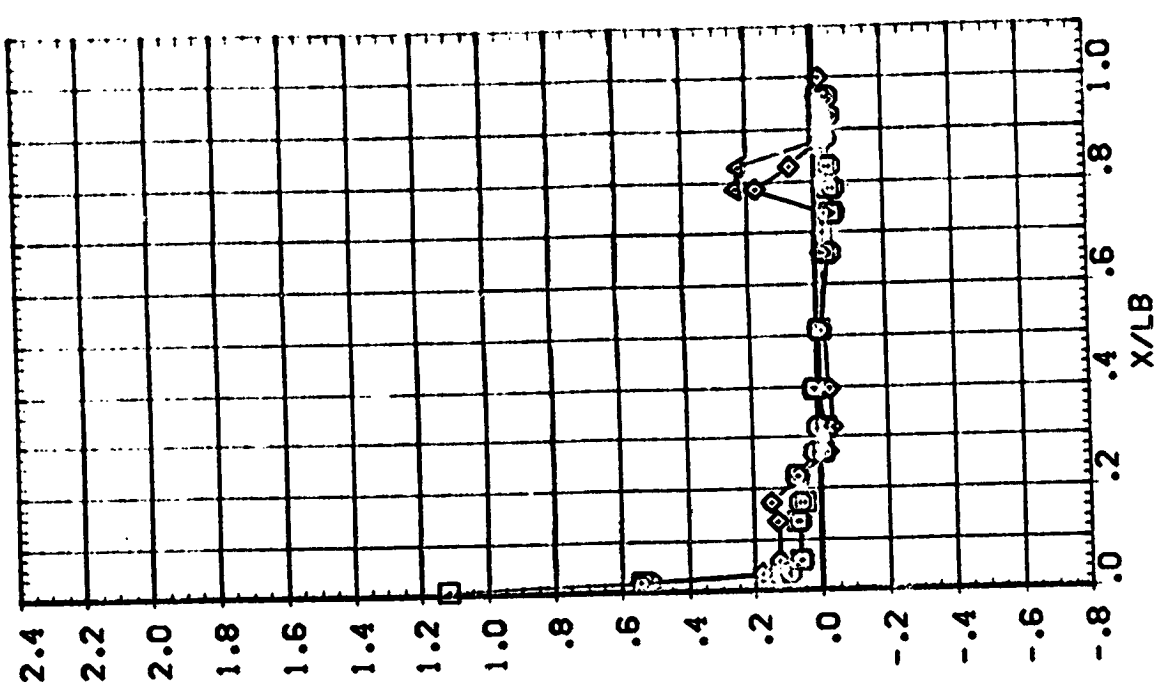
.500
.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

ALPHAT .000
 RUDER -10.000
 RUZR 0

BEAT -4.340
 MAG- 3.522
 PH: 70.000
 90.000
 120.000
 135.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 :A9 32A + S3 + T9 ORBITER FUSELAGE (RB\3:9)

SYMBOL

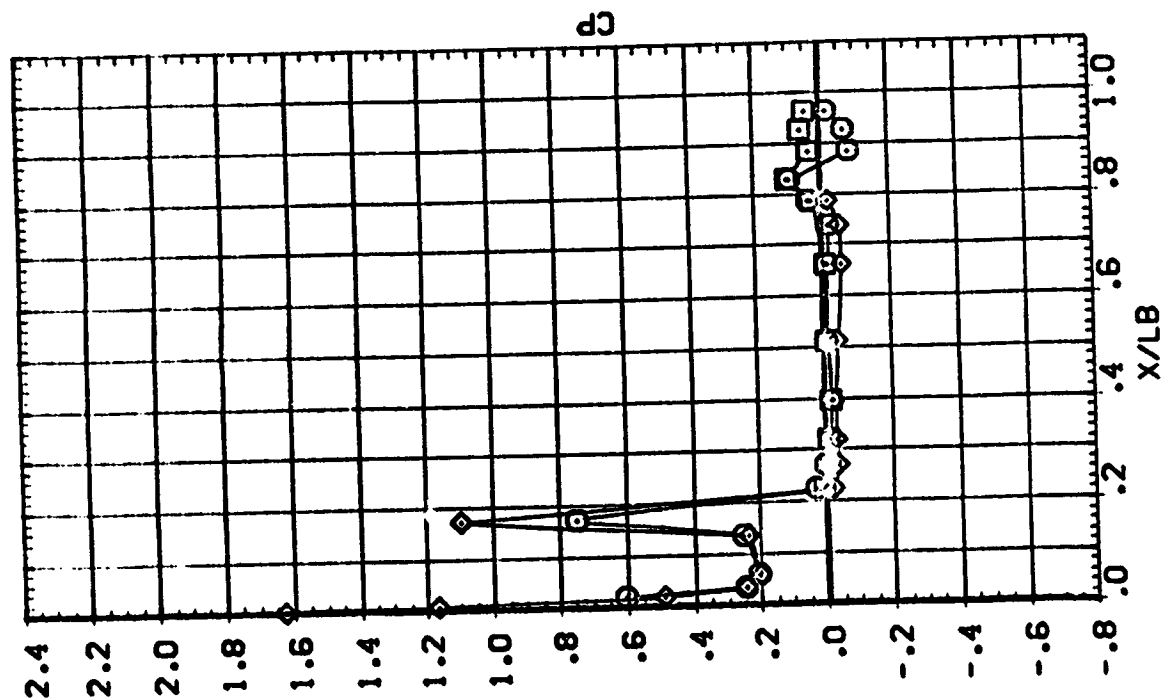
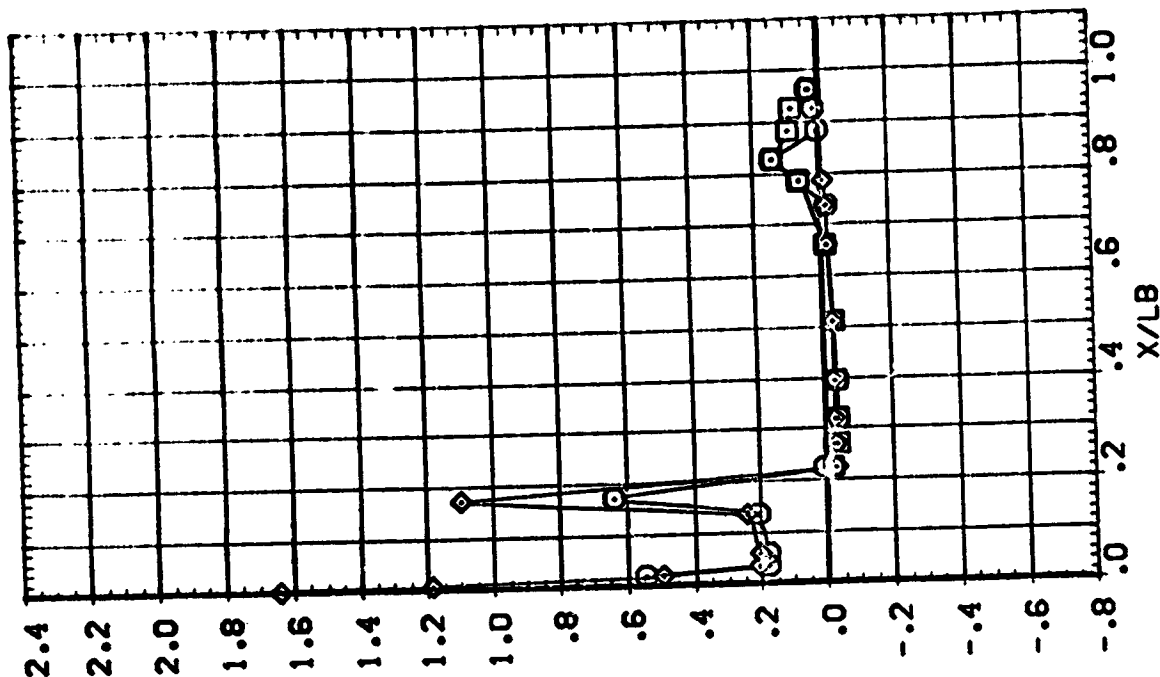
PA: 55.000
:65.000
:80.000

BETAT -4.340
.060

MACH 3.507

PARAME'RIC VALUES
ALPHAT .000
RUDDER -10.000
R\J\FLR .000

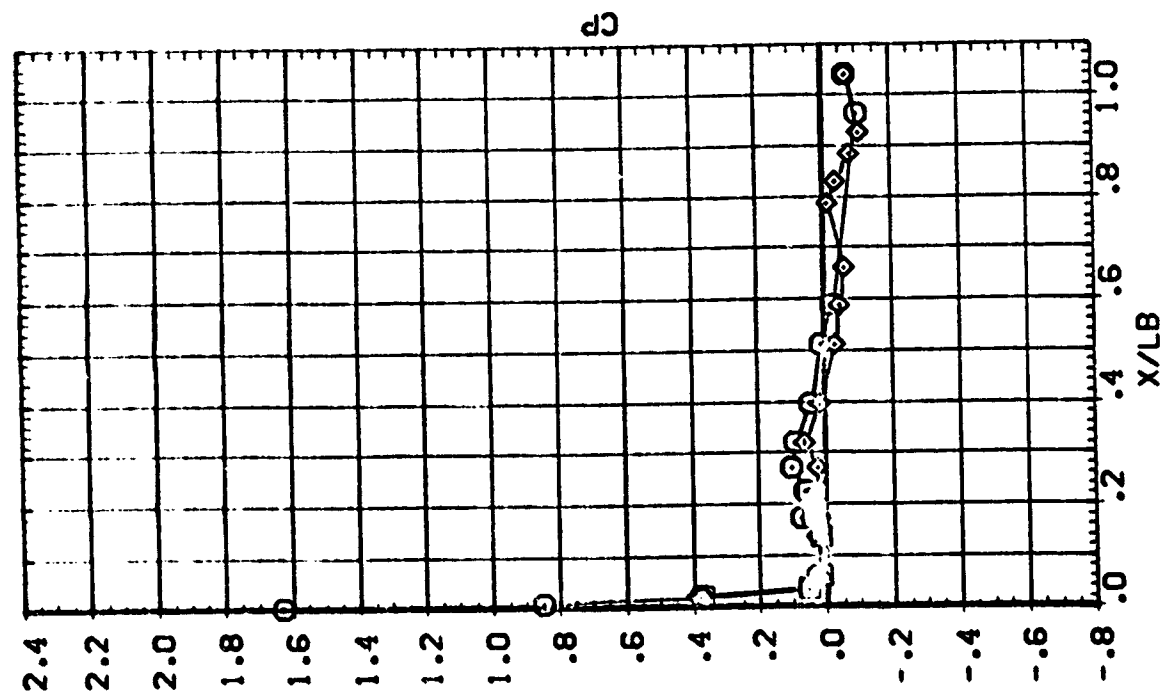
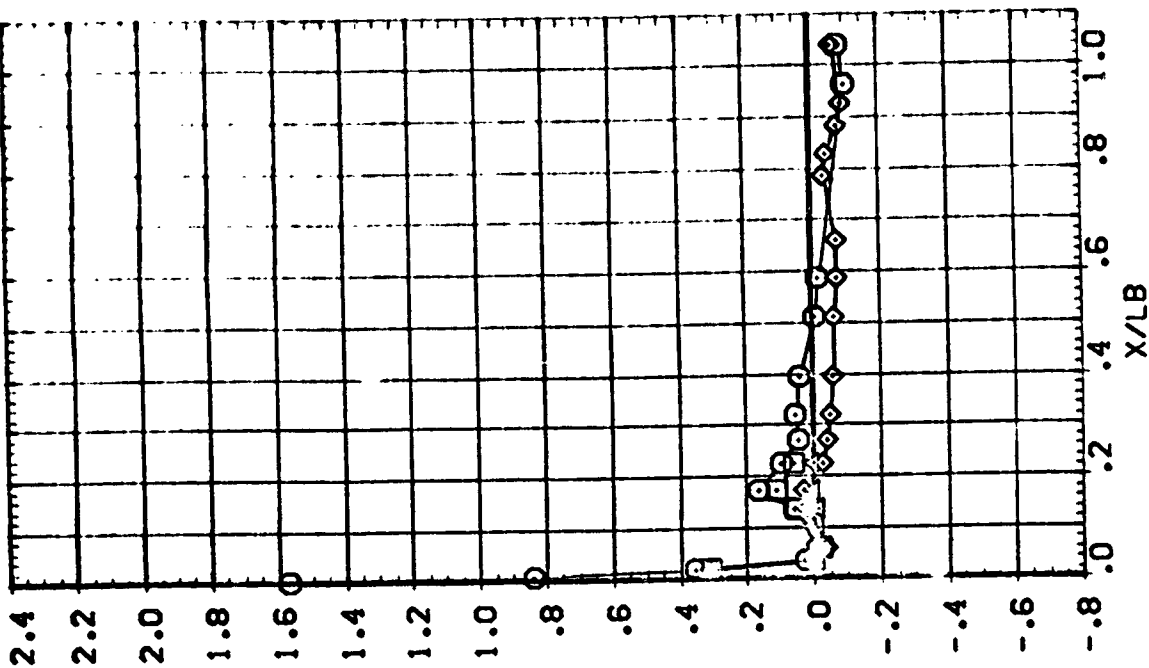
.500
.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

S.W.C. 36.71° MACH 3.502
 70.000 1.460 8.850
 40.000
 55.000

PARAMETER VALUES
 ALPHA 1.000 0.000 0.000
 RUDDER -10.000 0.000 0.000
 RUDDER 0.000 0.000 0.000



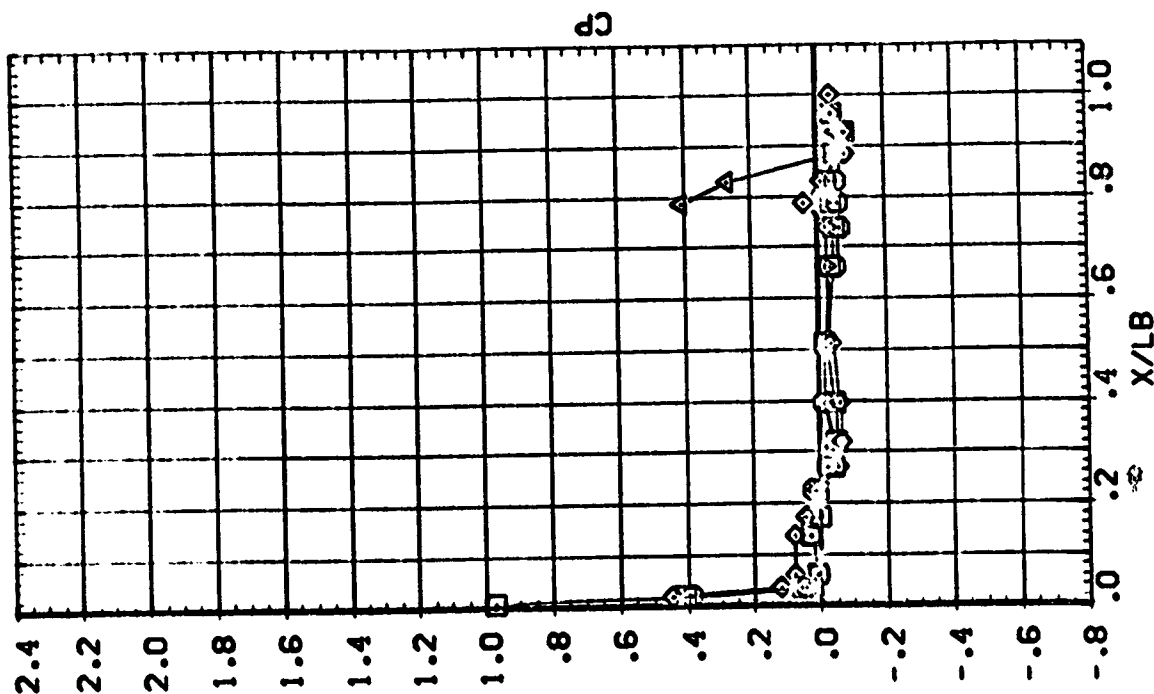
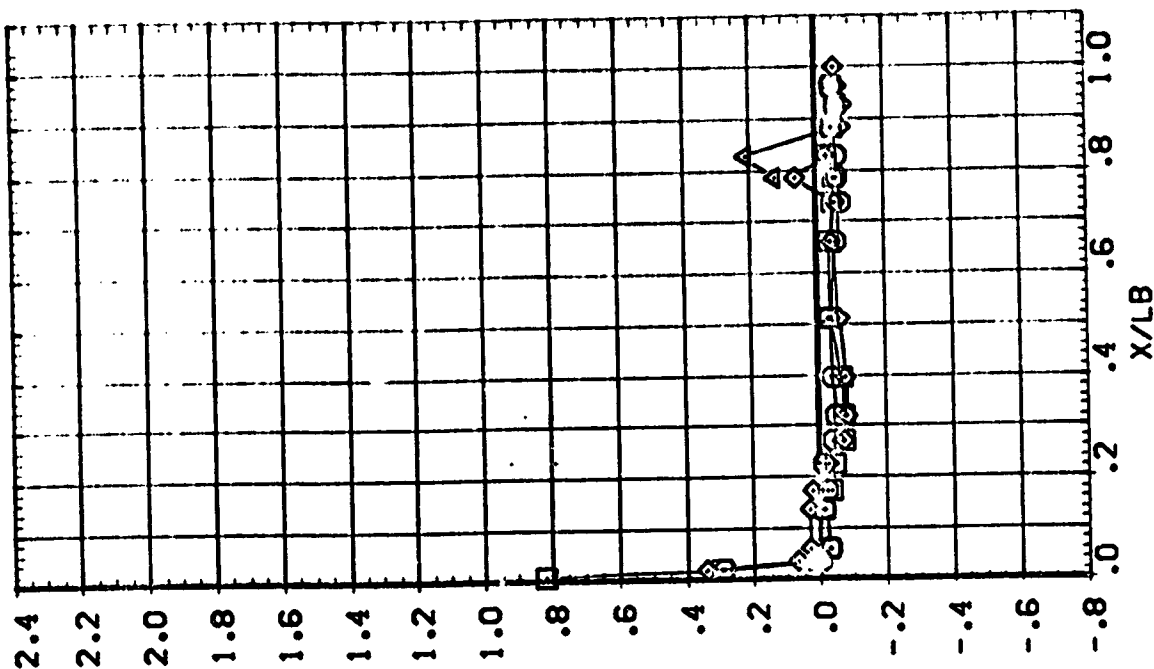
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 87-707 :A9 C2A + S3 + T9 ORBITER FUSELAGE (RBNB:9)

SYSC-
 70.000
 80.000
 120.000
 135.000

BETA: 4.463 3.507
 8.860

PARAMETRIC VALUES
 ALPHAT: .000
 RUDER: -10.000
 RCTLR: .000
 ORBING: .500
 ELEV: .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

SYMBOL
○
◇

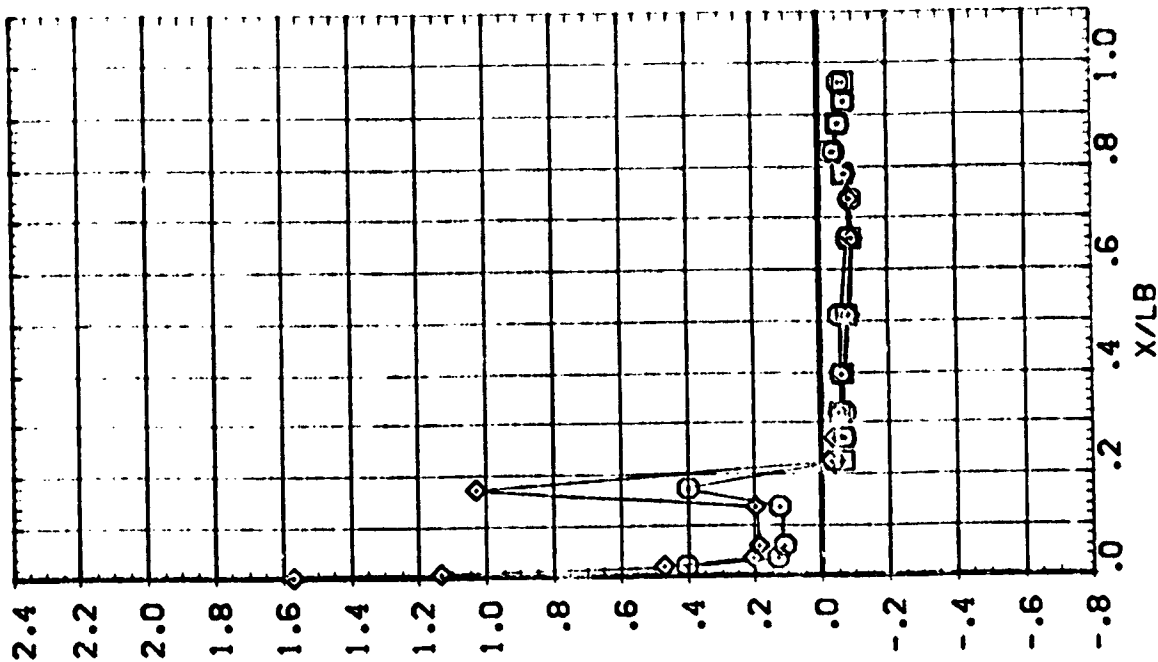
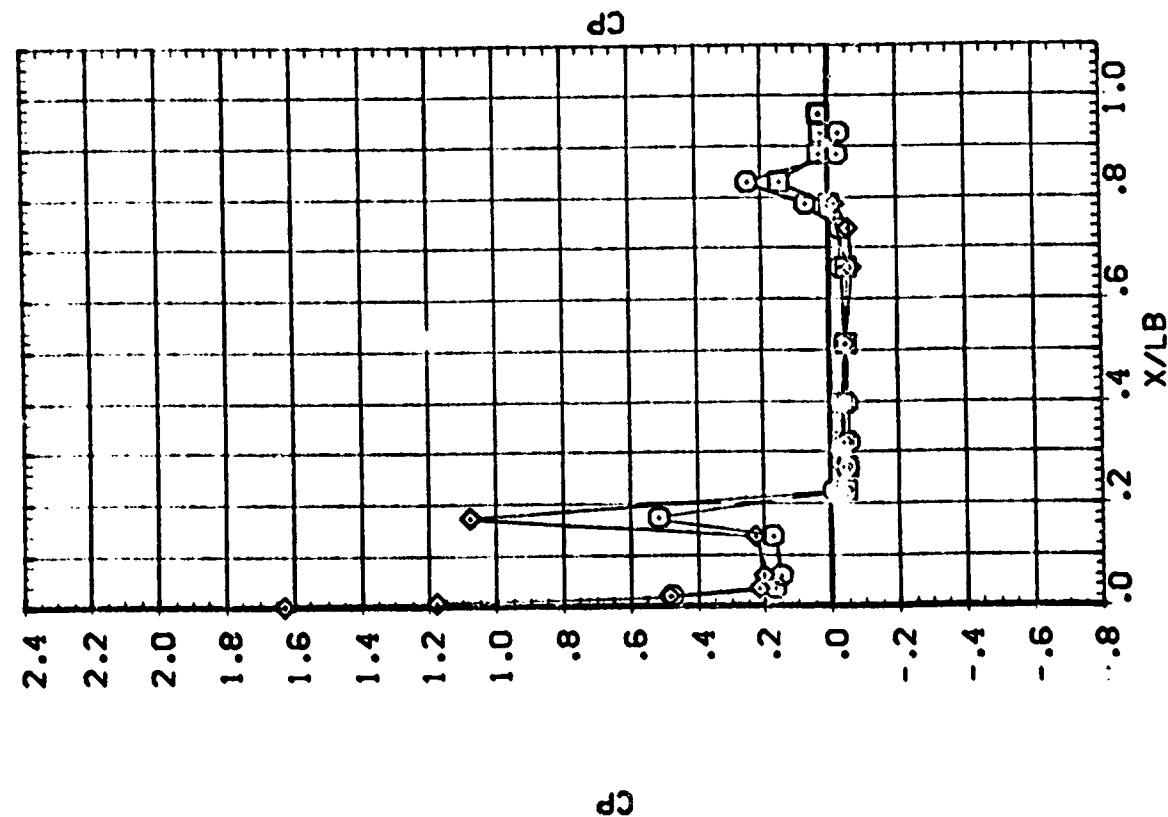
PA: 150.000
165.000
180.000

BE "A" 4.450
8.860

WICH 3.507

PARAMETRIC VALUES
ALPHA .000 999.9
RUGGED -10.000 ELEVATION
RUGGED .000

.500
.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

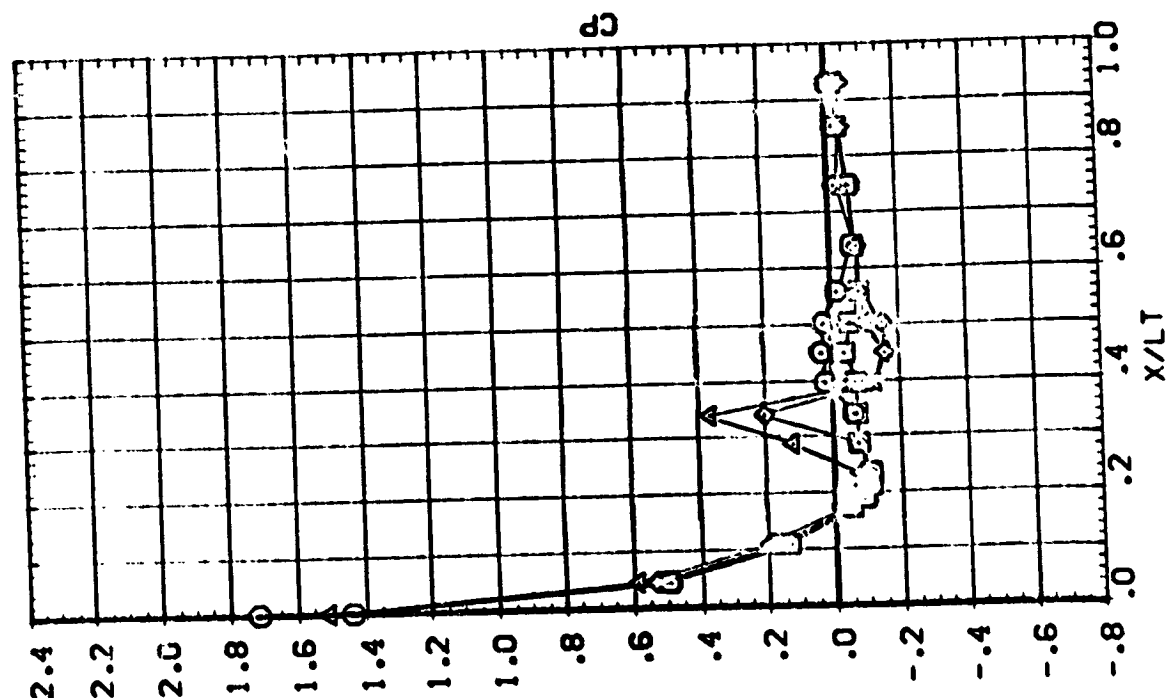
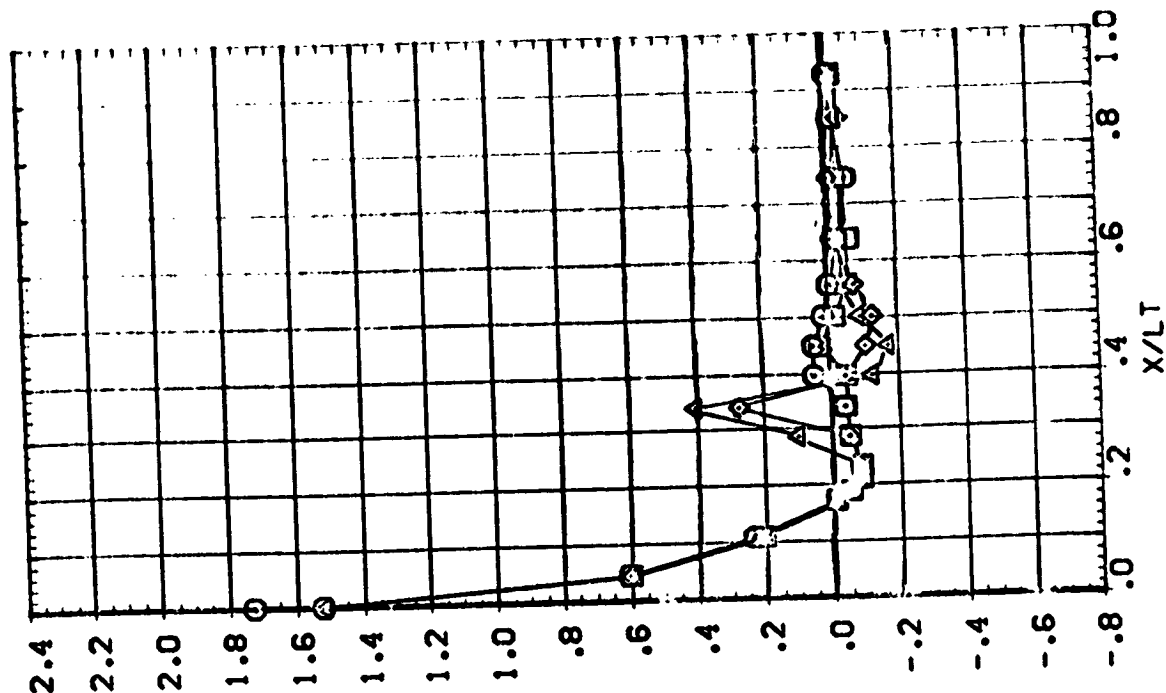
[RBNT01]

AVES 87-707 :A9 02A + S3 + T9 EXTERNAL TANK

SYNCD
0
1
2
3

ALPHA* MACH
-4.030 2.498
.000 .000
30.000 60.000
90.000

PARAMETRIC VALUES
BETAT .000 099:0
RUDDER .000 ELEVON
RUDDLR .000



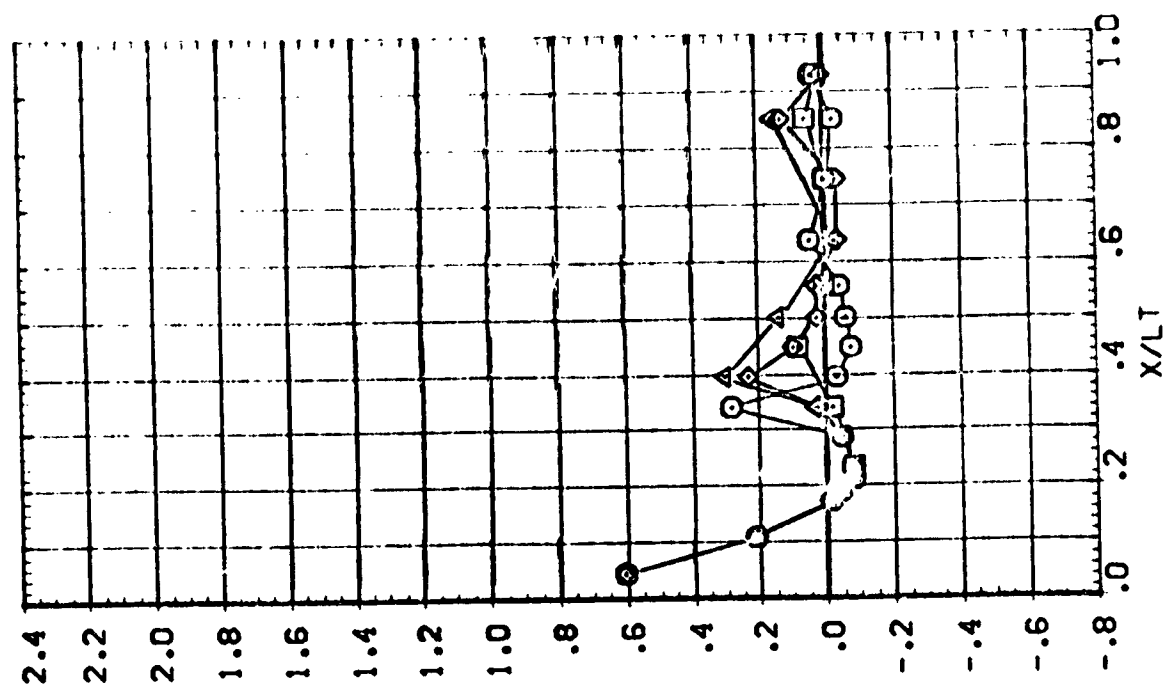
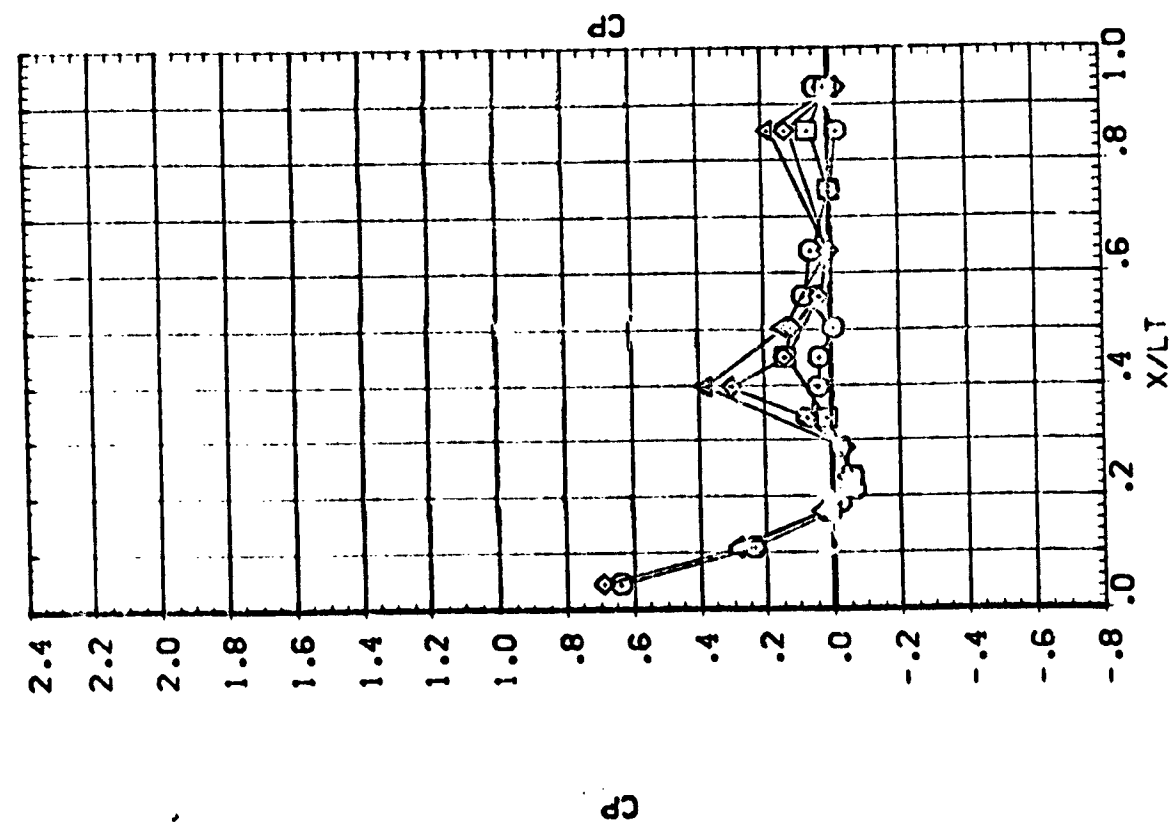
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

1955-1956

701104
-DEAS

00000
10000

PARA: P.C. 4.1.5S	DATE: 03/02/2000	TIME: 11:11
BETA: 0.000000	0.000000	0.000000
ROTOR: 0.000000	0.000000	0.000000
ROTOR: 0.000000	0.000000	0.000000

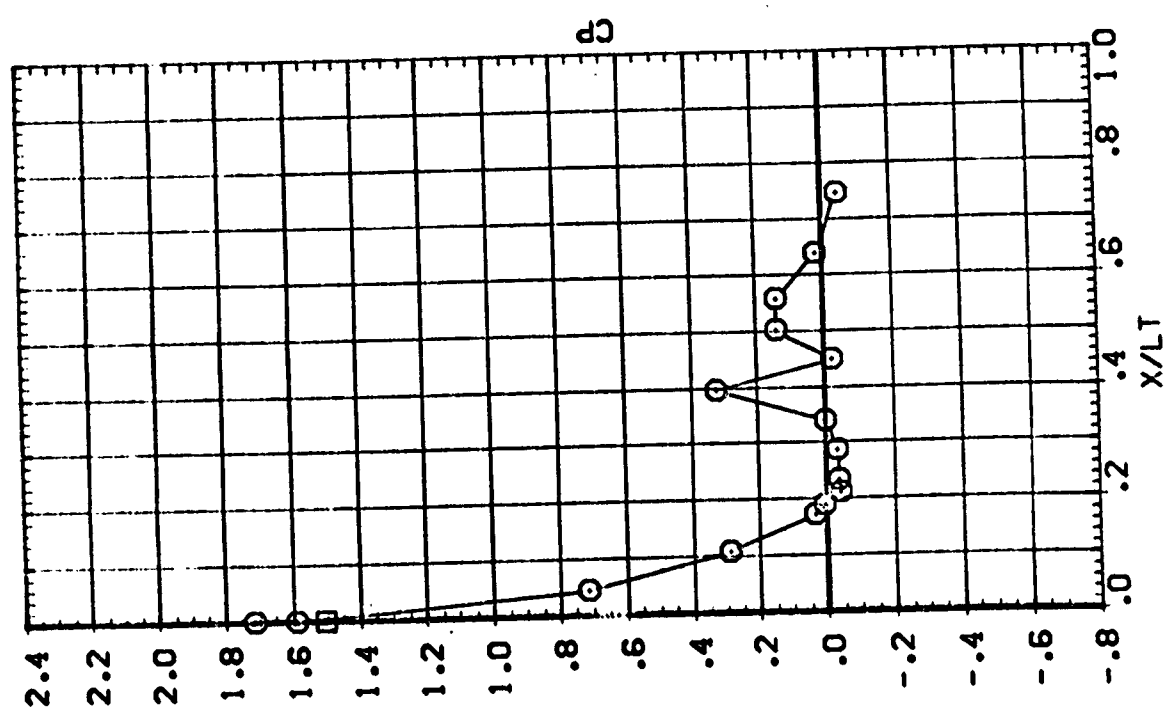
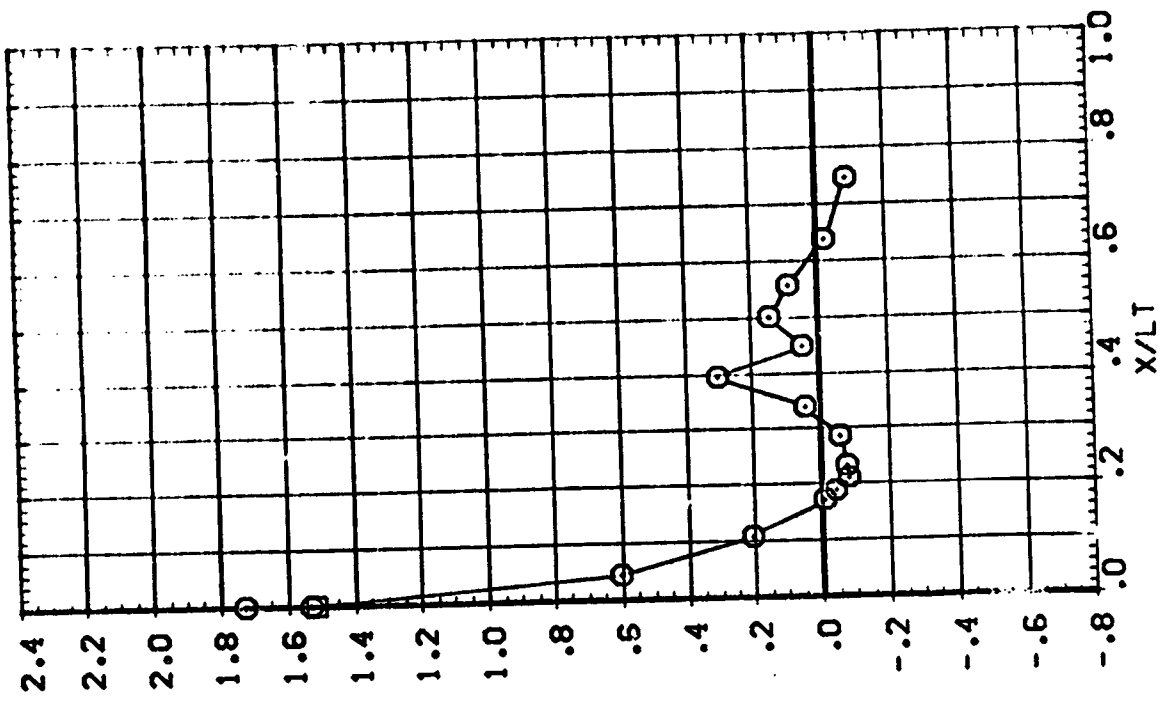


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

[RENT:0.0]

AVES 87-707 :A9 C7A + S3 + T9 EXTERNAL TANK

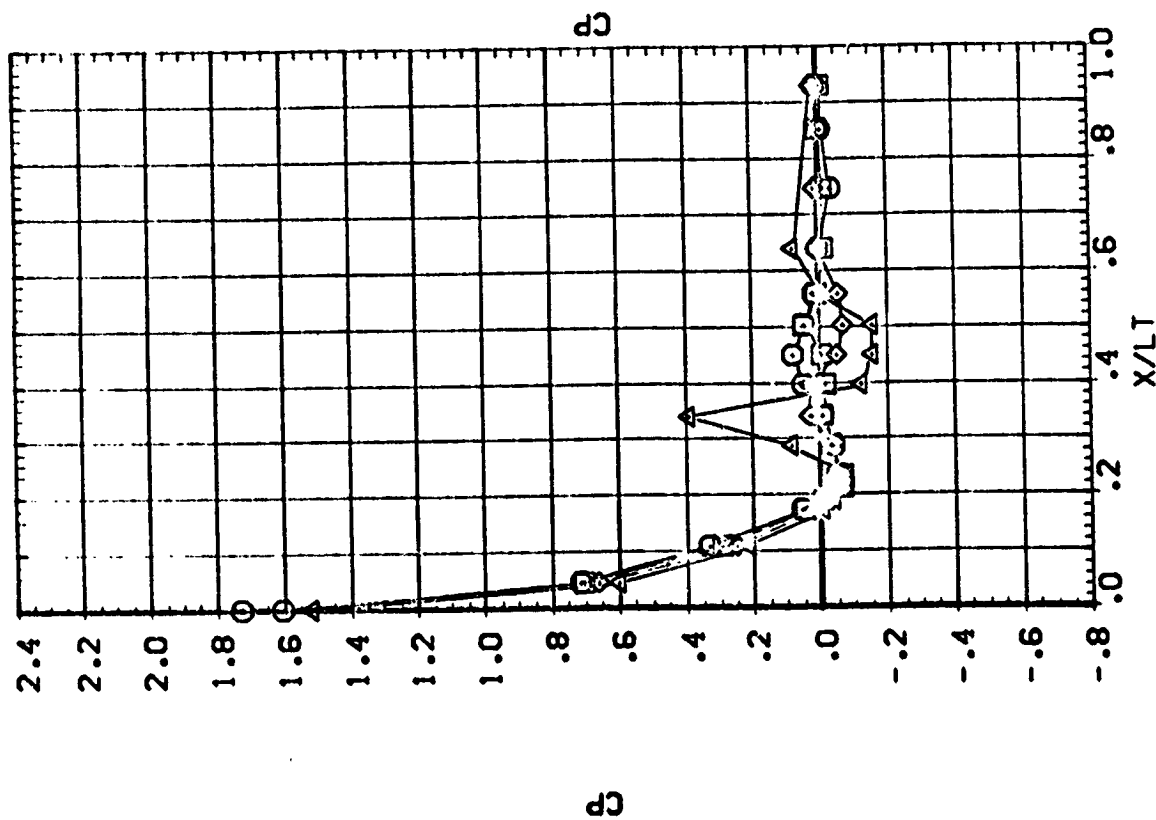
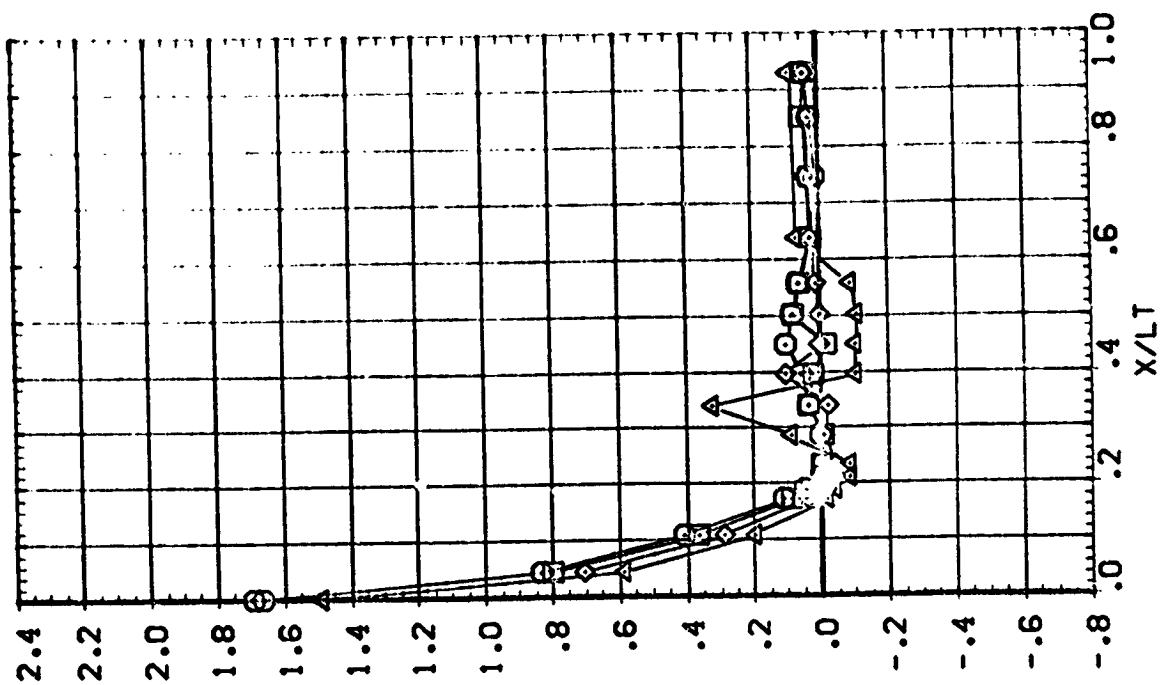
SYSC.	PA:	ALPHAT	MACH	PARAME'TRIC VALUES
0.1	180.000	-4.030	2.498	BETA* .000
	270.000	.000		RODGER .000
				ELEVON .000
				ROTOR .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

ST. JAMES

Symbol	Value	Unit
Δ_{2-2}°	3.900	
Δ_{2-2}°	8.513	
Δ_{2-2}°	2.498	



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

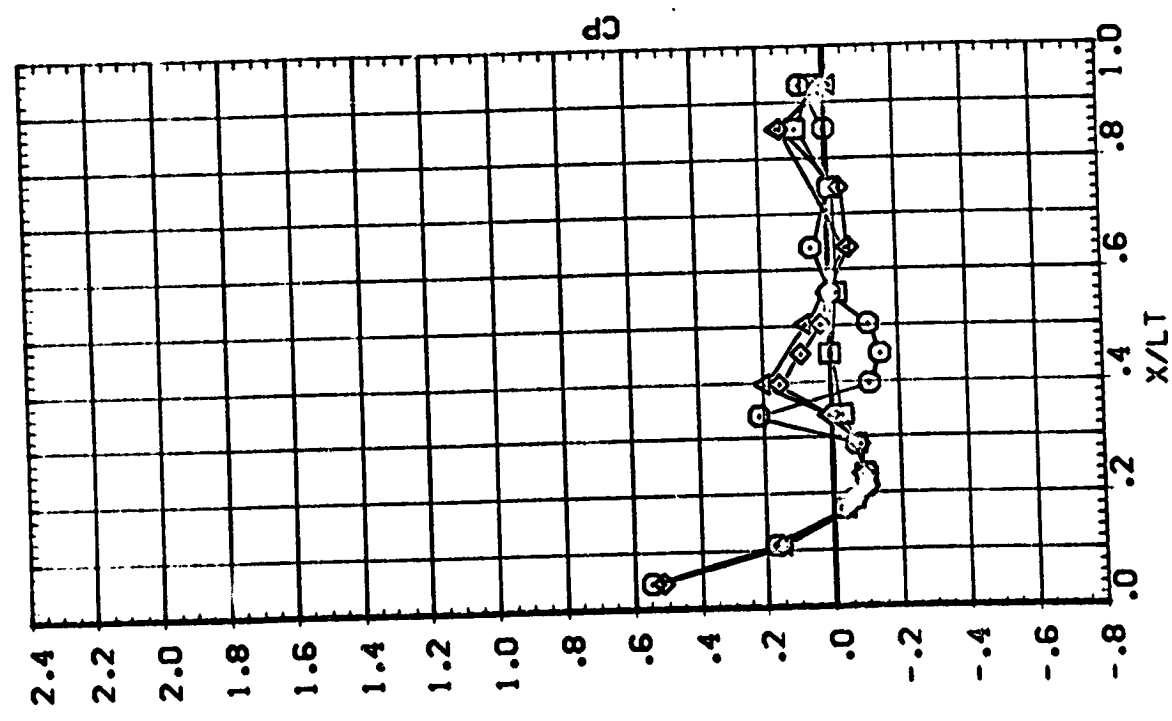
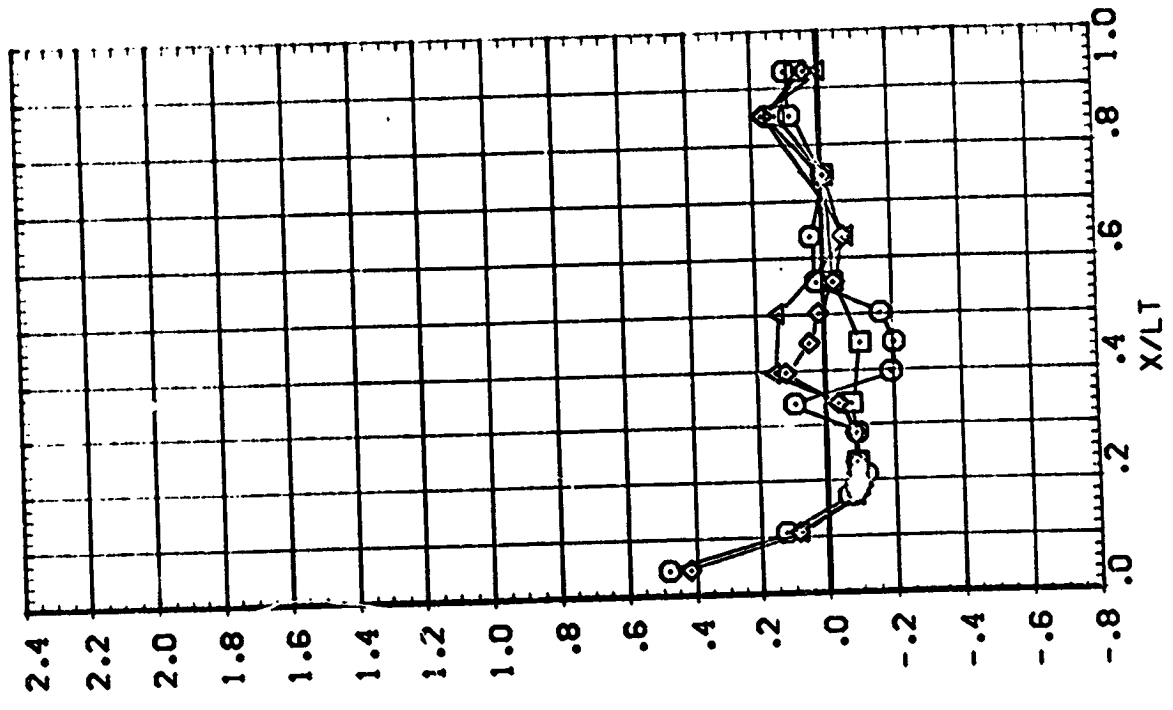
==

AVES 87-707 :A9 C2A + S3 + 19 EXTERNAL TANK (RBNT00)

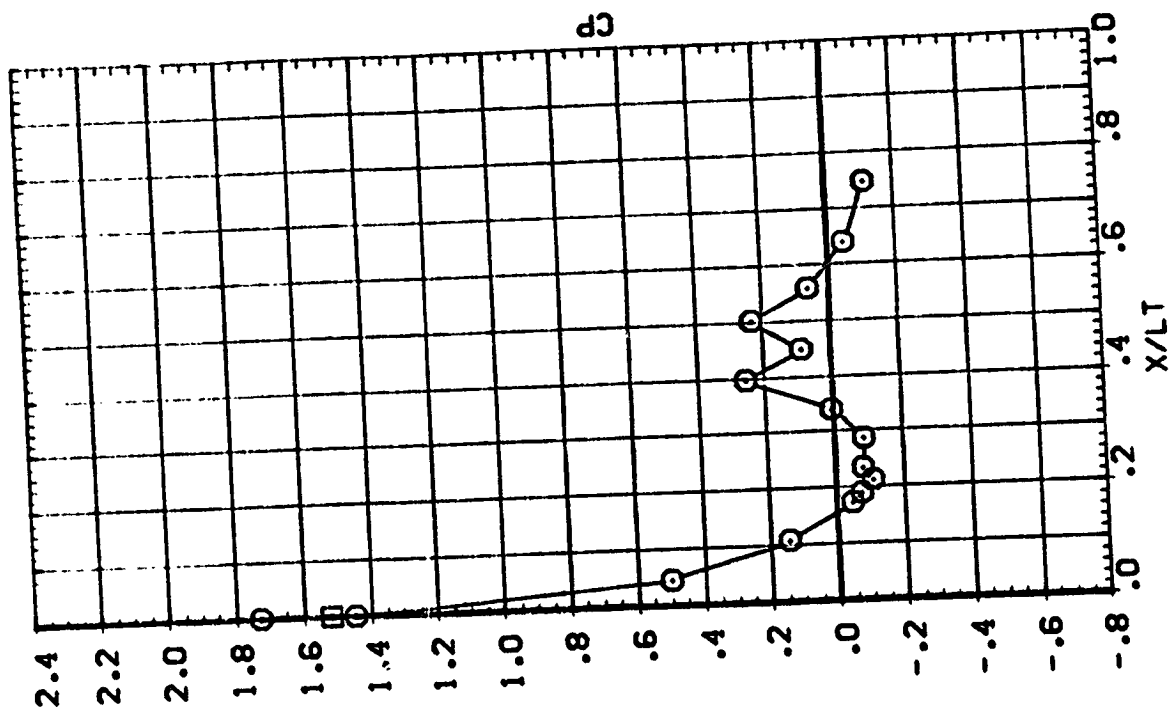
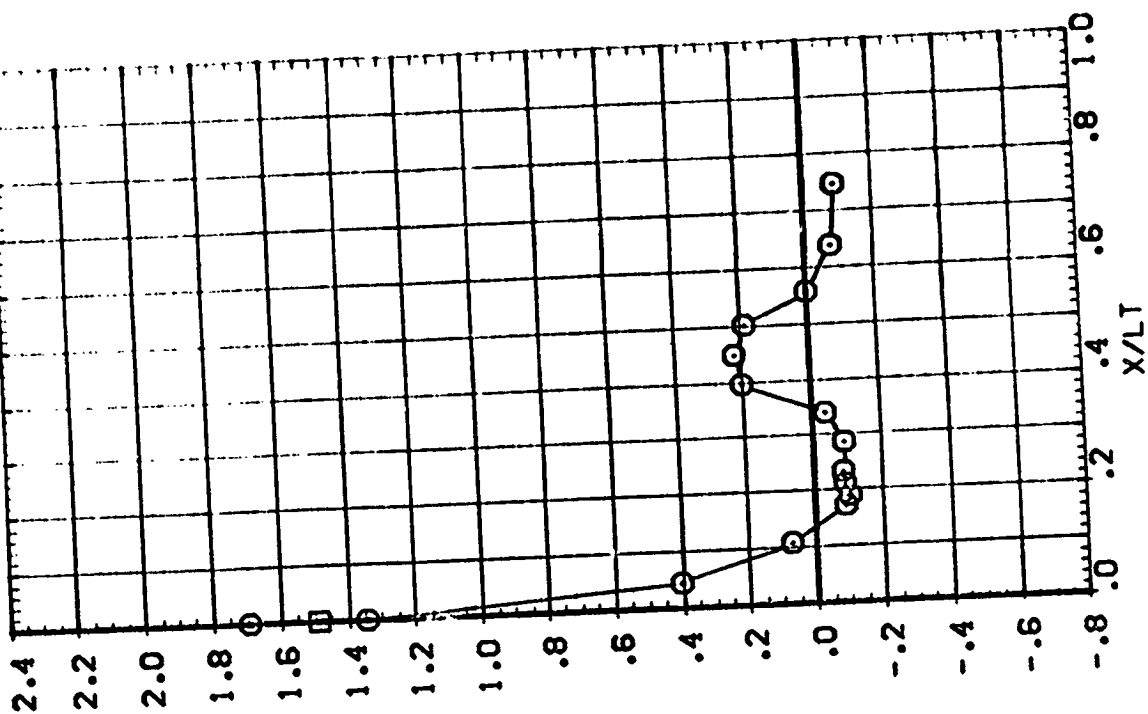
PARAMETRIC VALUES
 .000 ORBINC .500
 .000 ELEVON .000
 BETAT
 RUDDER
 RUFLP

ALPHA 3.900
 WACH 2.498
 8.010

SVSEC
 120.000
 135.000
 150.000
 165.000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

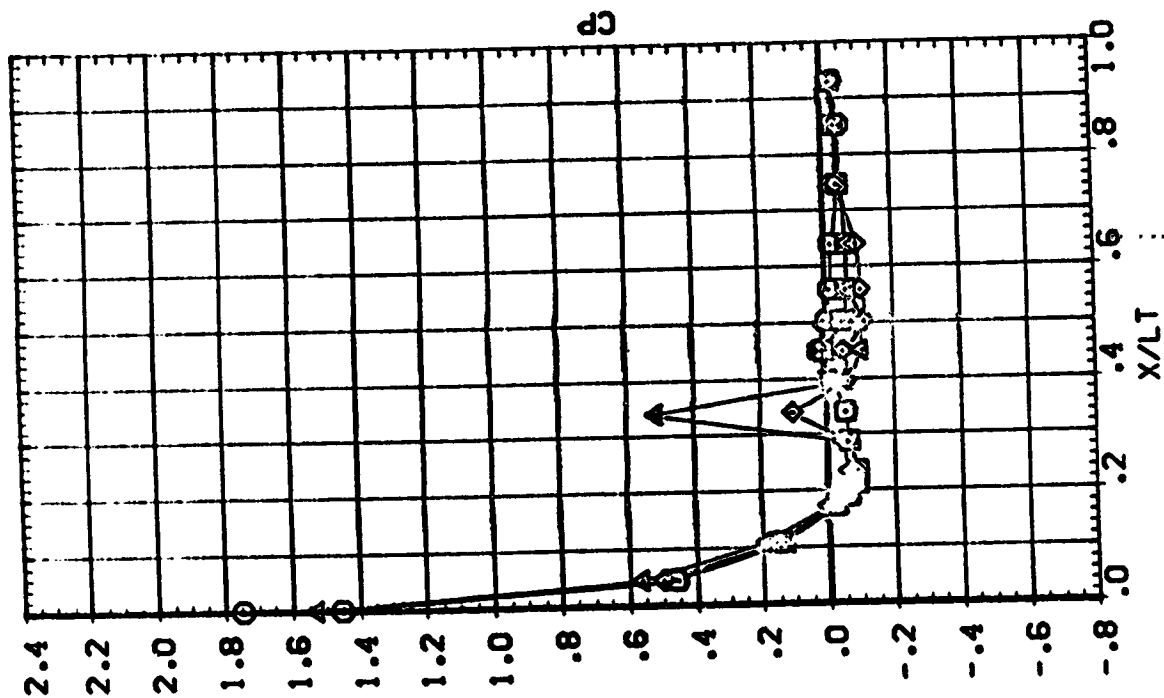
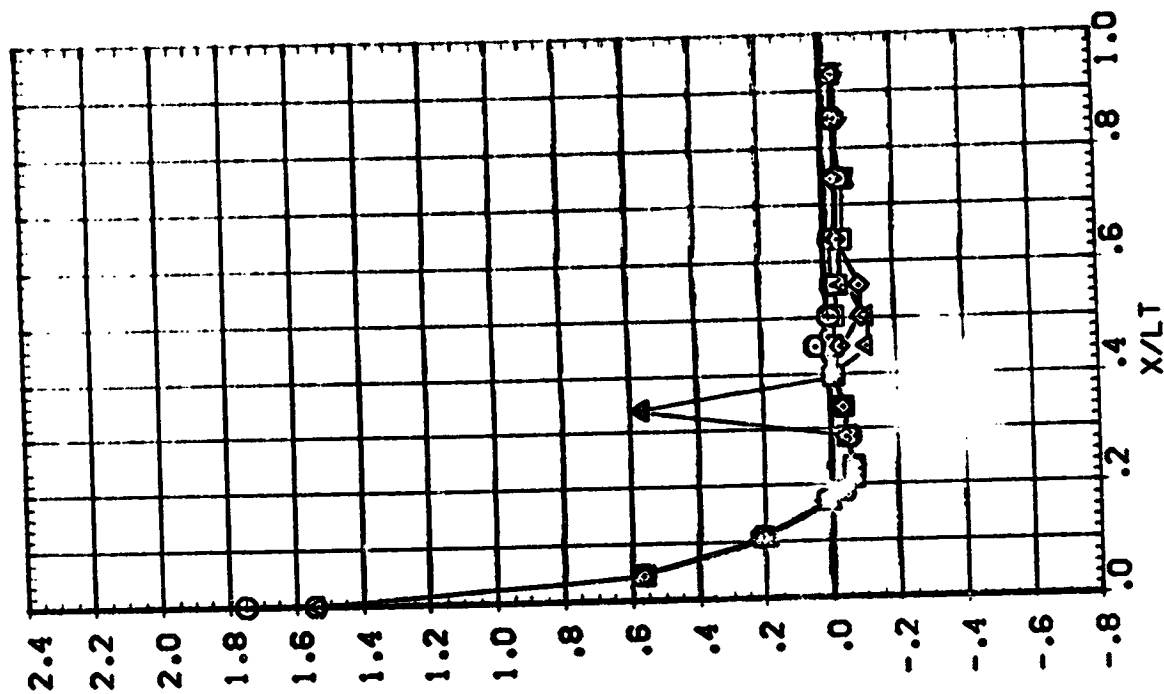


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

SYMBOL
 ○ ○ ○ △

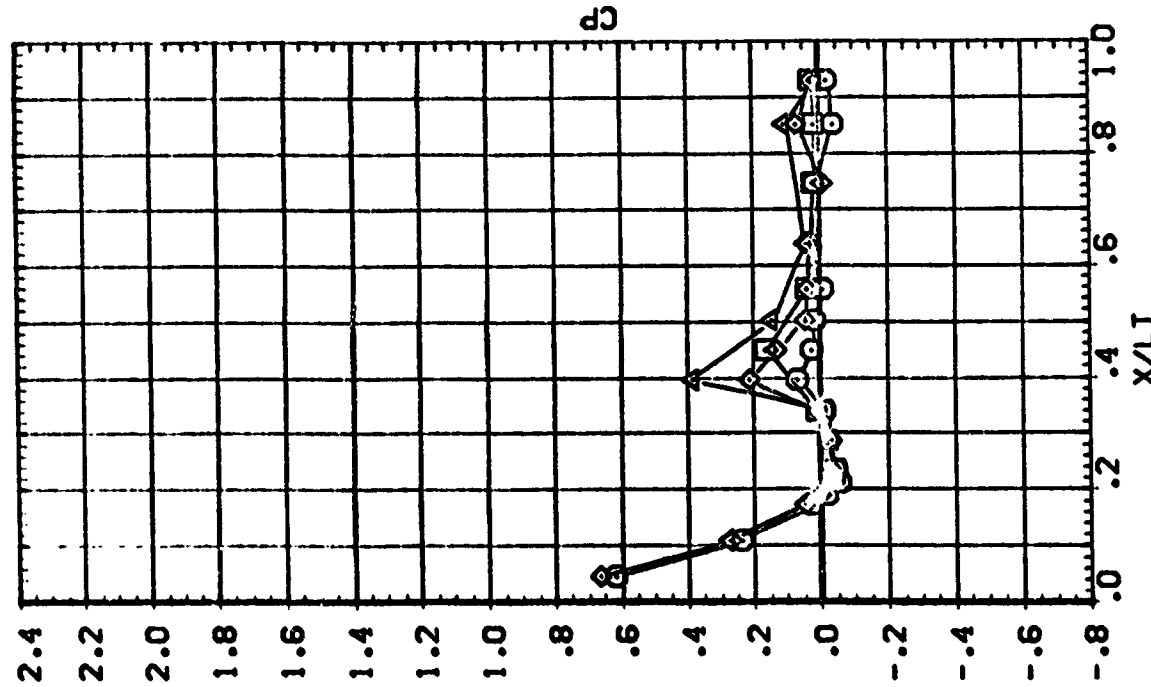
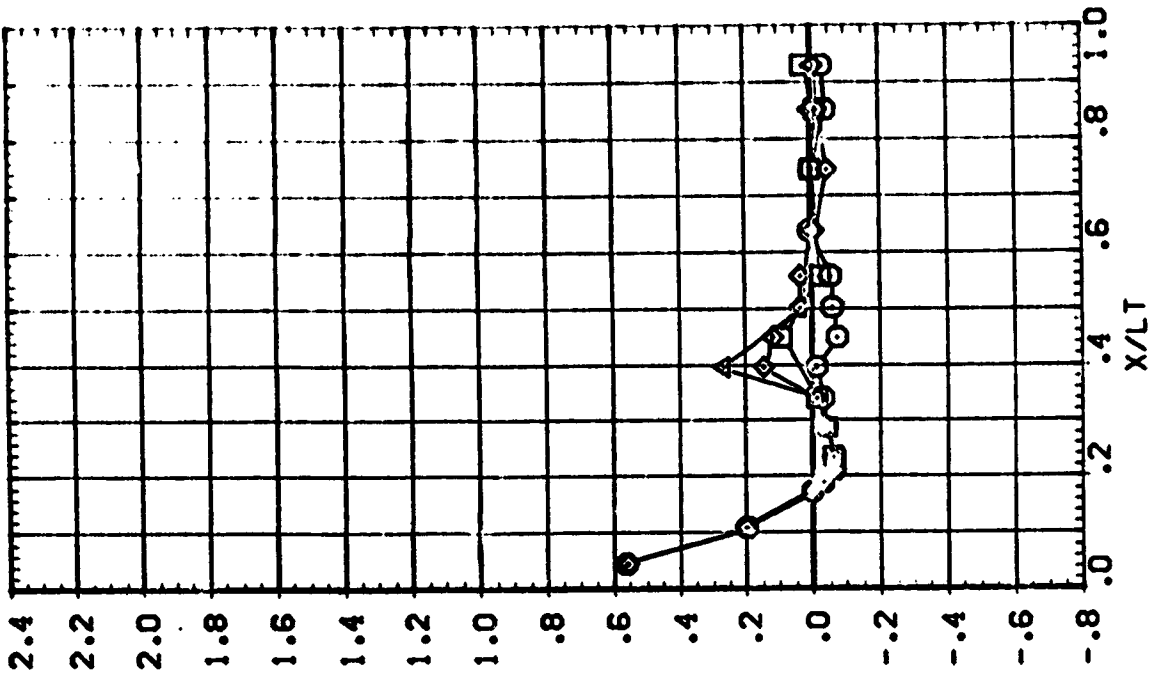
PHI ALPHA1 MACH
 .000 -4.070 2.999
 30.000 - .010
 60.000
 90.000

PARAMETRIC VALUES
 BETAT .000 099.10
 RUDDER .000 ELEVON
 RUFLR .000 .500 .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

PARAMETRIC VALUES
 BETAT 599.12
 RUDDER 1.000
 RUDDFLR 1.000



SYMBO:
 () 120.000
 () 35.000
 () 50.000
 () 65.000

A-BETAT 2.999
 -4.070
 -0.010

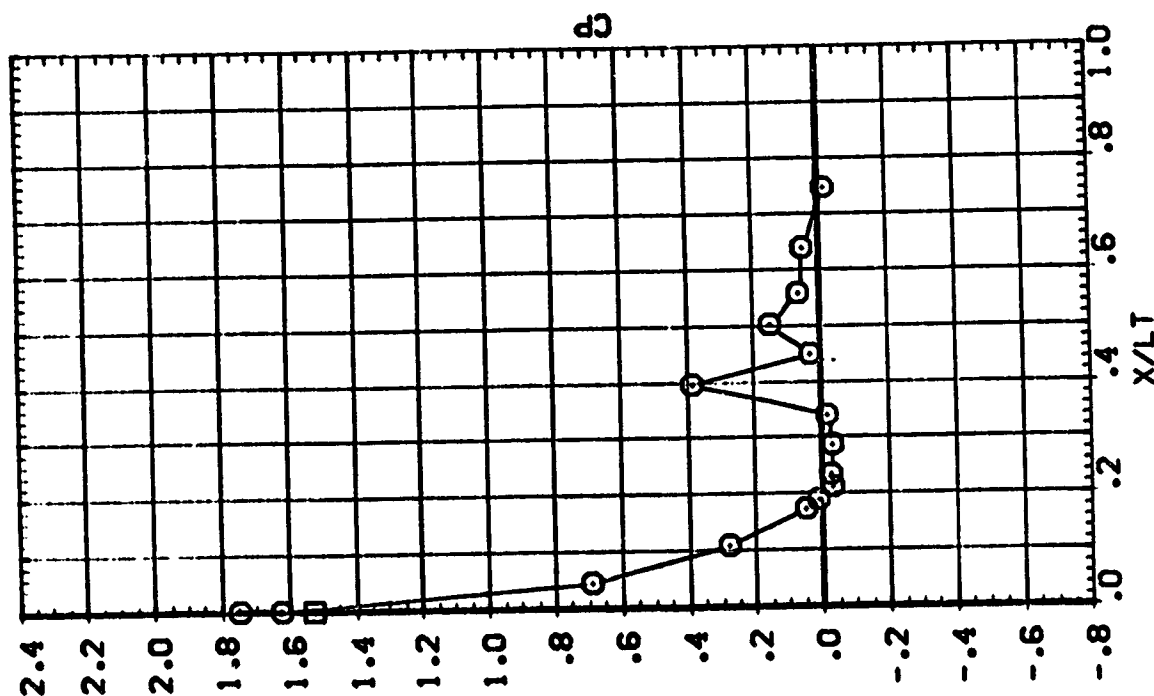
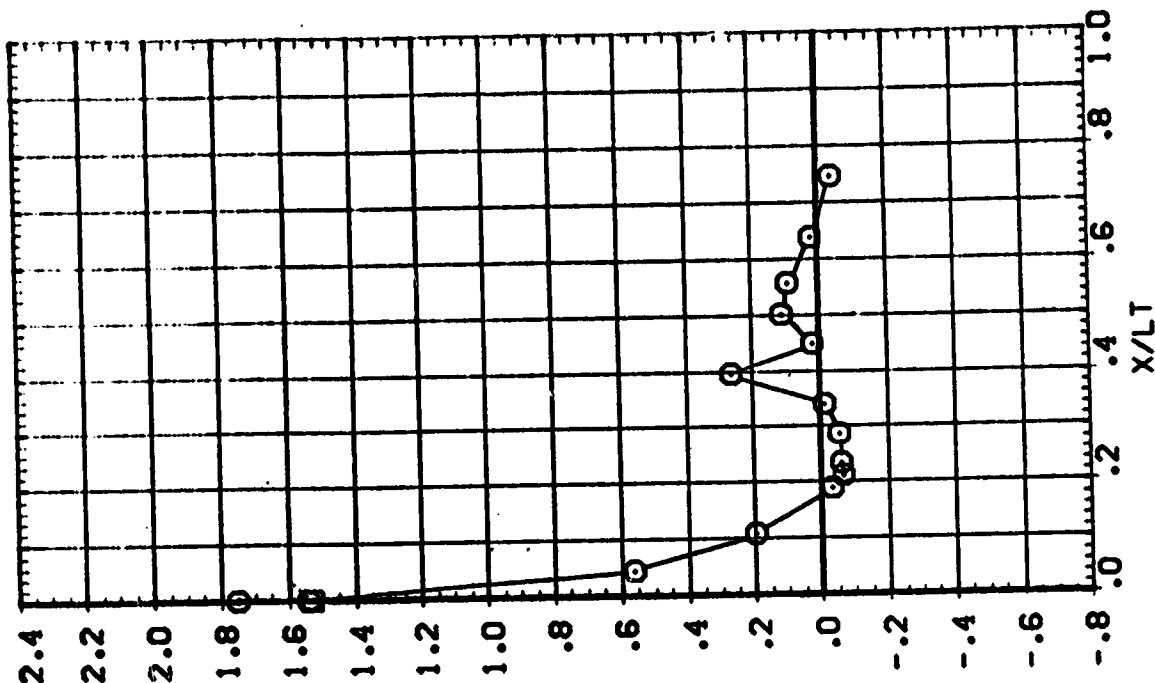
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

(RBN:01)

AVES 87-707 1A9 02A - S3 + T9 EXTERNAL TANK

PARAMETRIC VALUES
 BETAT .000 ORBINC .500
 RUDDER .000 ELEVGN .000
 RUFLR .000

SYSC- PH: ALPHAT MACH
 180.000 -4.070 2.999
 770.000 -0.010



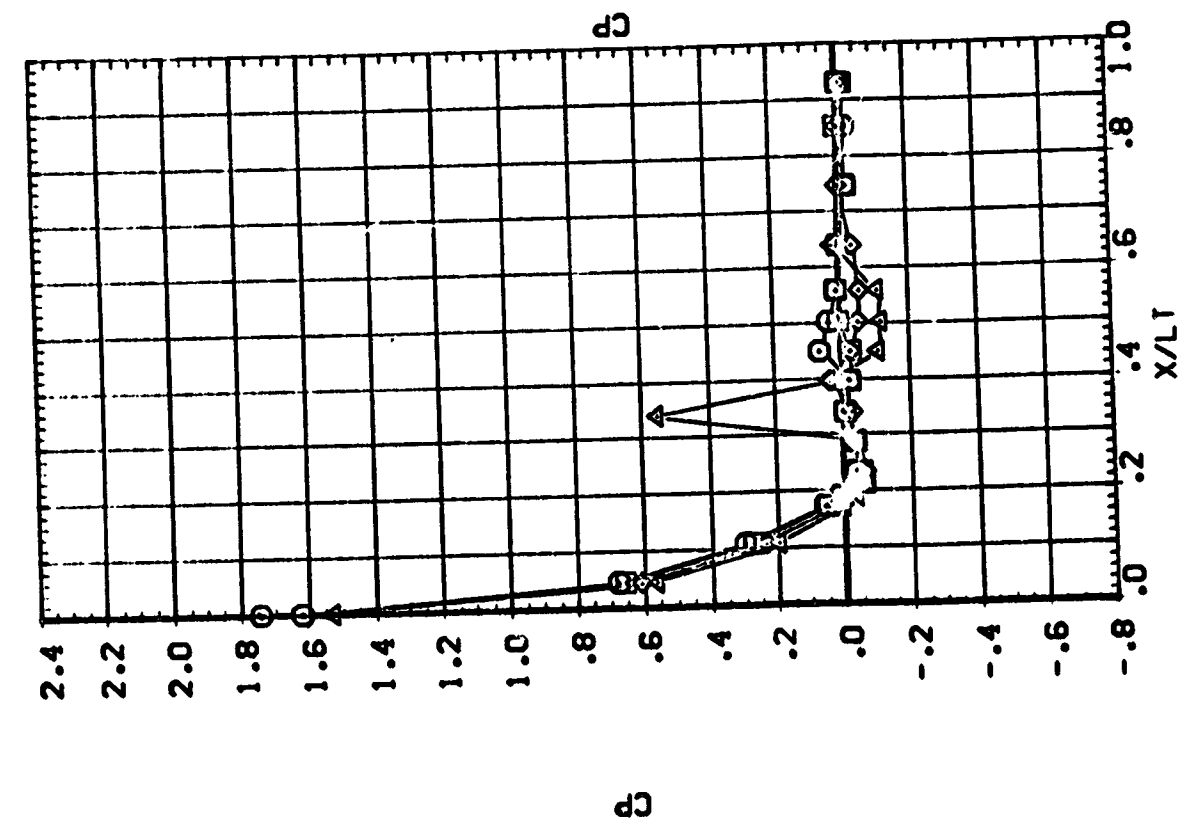
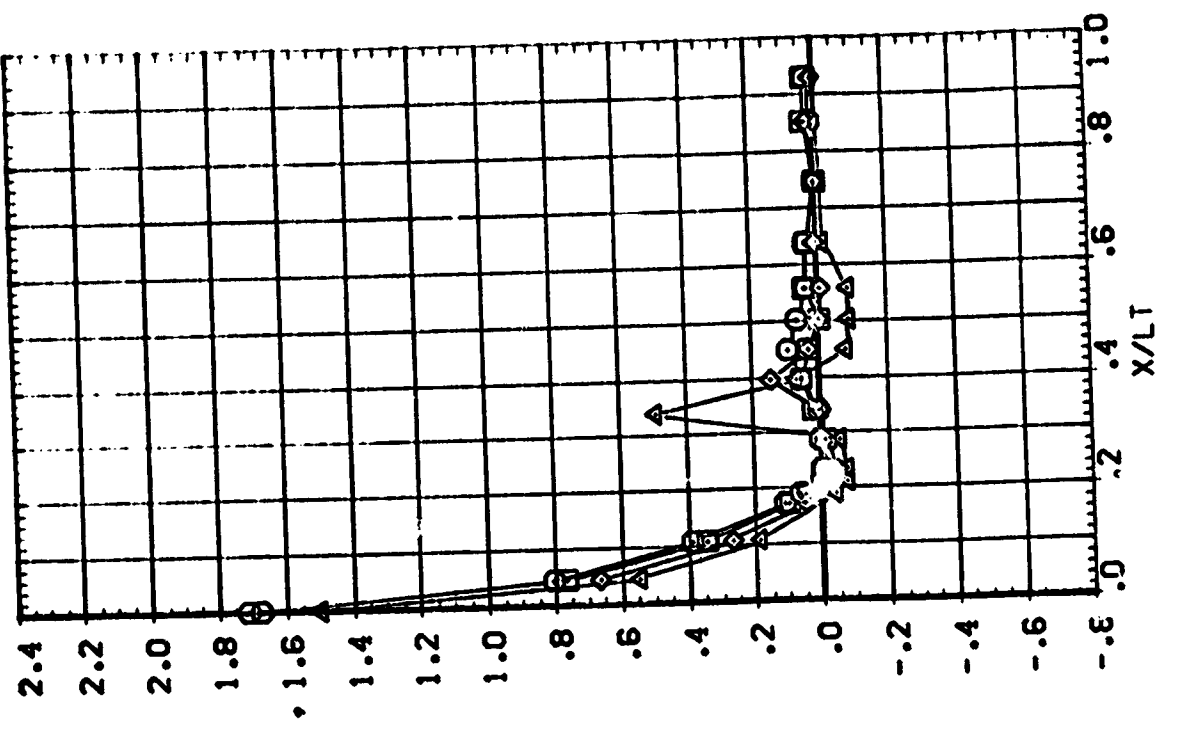
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AVES 87-707 :A9 02A + 03 + 19 EXTENSURE 11001

SYMBOL
 ○
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 ◇
 △

ALPHA1 PACH
 .000 3.950 2.999
 30.000 8.000
 60.000
 90.000

PARAMETRIC VALUES
 BETA1 .000 DRBINC .500
 RUDER .000 ELEVEN .000
 ROLLO .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

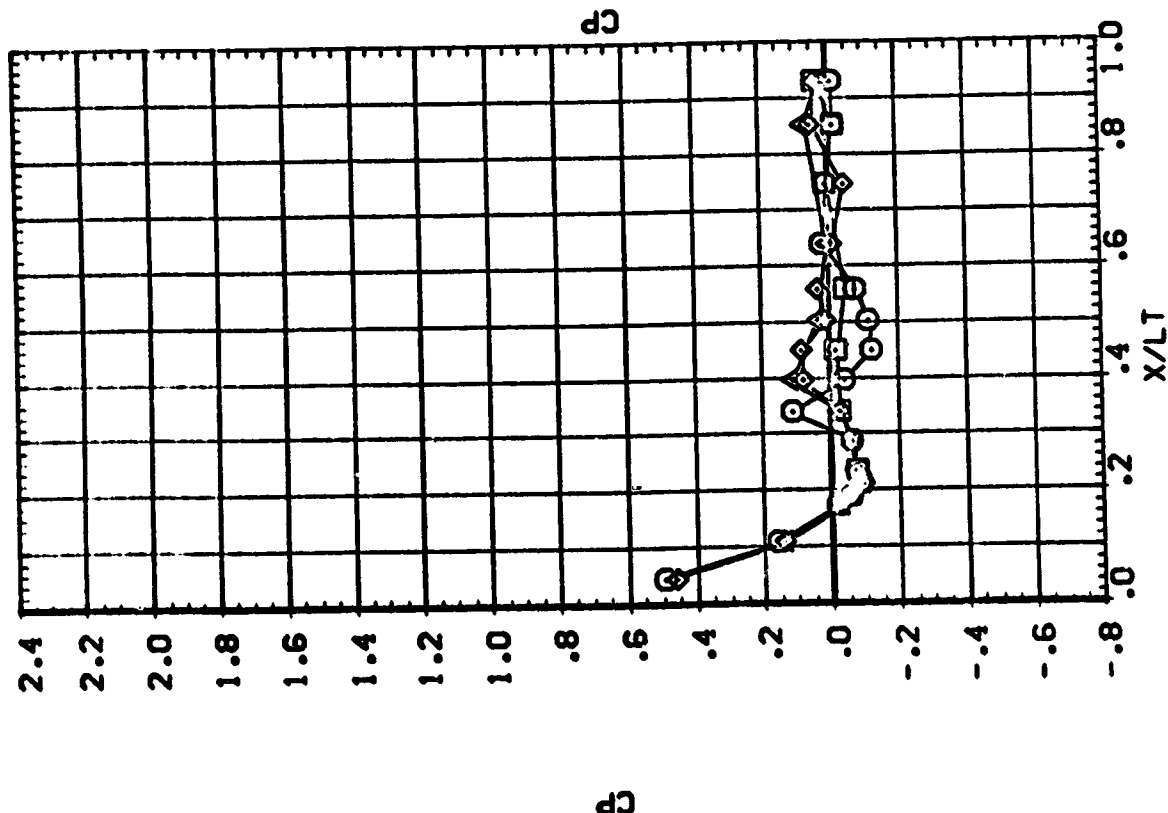
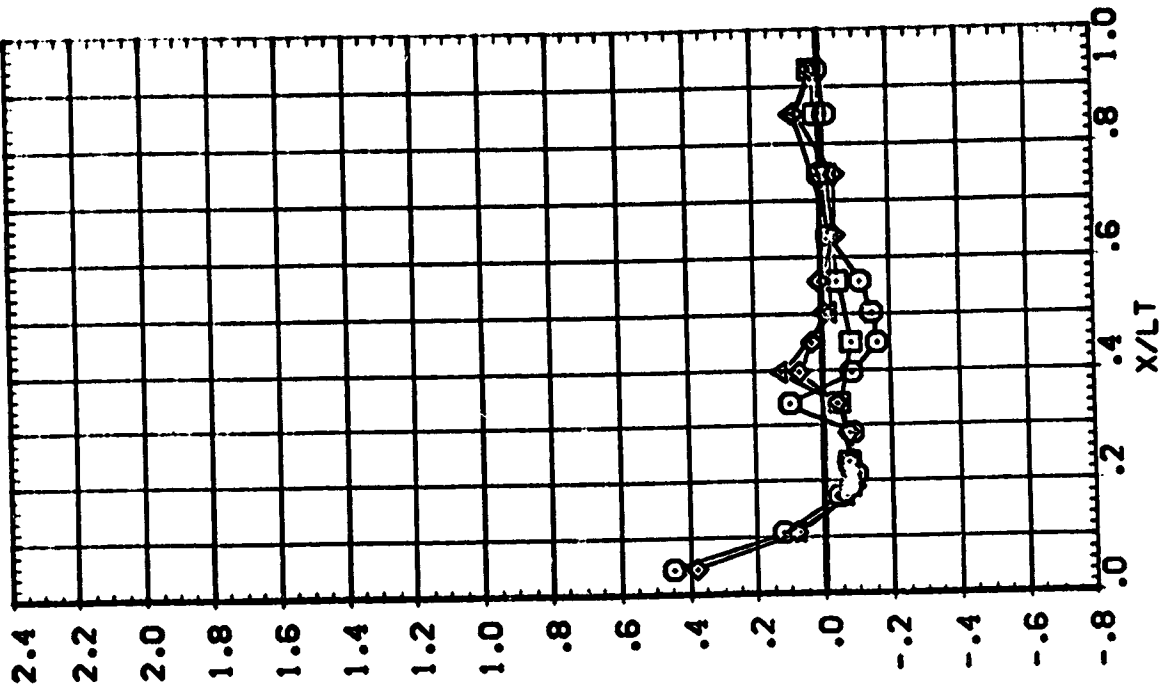
SYMBOL
O
◇
△

PHI
170.000
135.000
150.000
165.000

ALPHA
3.960
8.000

MACH
2.999

PARAMETRIC VALUES
BETAT .000
RJOER .000
RJOFLR .000
ORBNIC .500
ELEVON .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

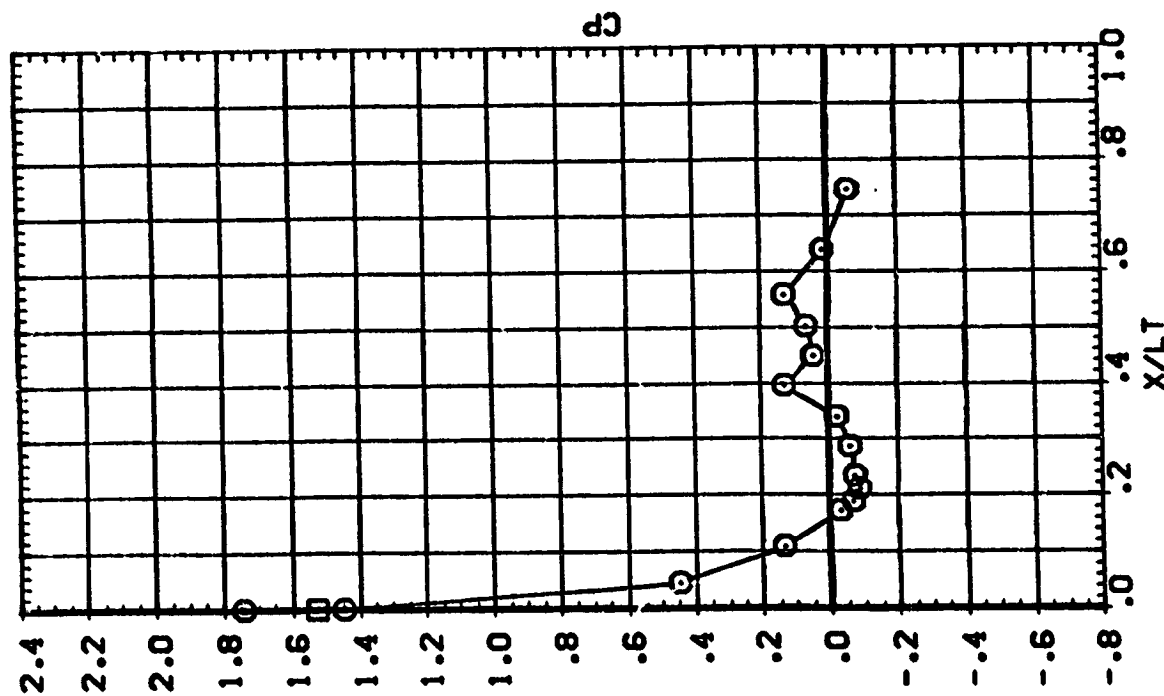
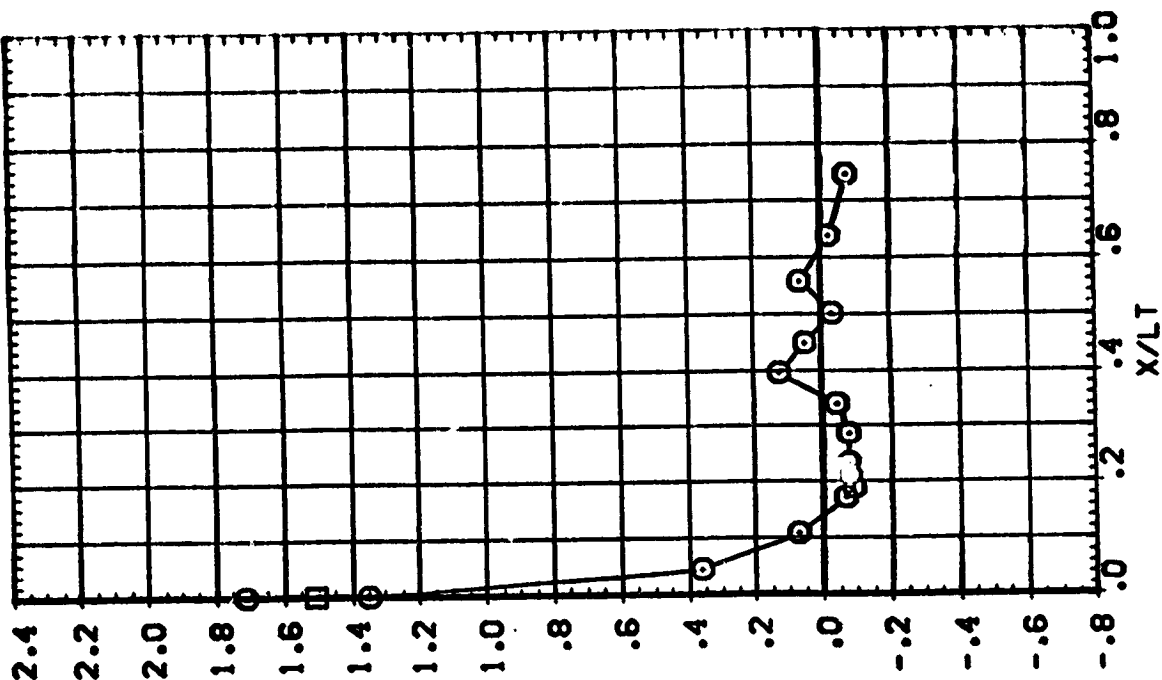
[RBNT01]

AMES 87-707 1A9 02A + S3 + T9 EXTERNAL TANK

SYMBOL
□

PHI: 180.000 3.980 2.999
270.000 8.000

PARAMETRIC VALUES
BETAT .000 DRBINC .500
RUDDER .000 ELEVEN .000
RUDFLR .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

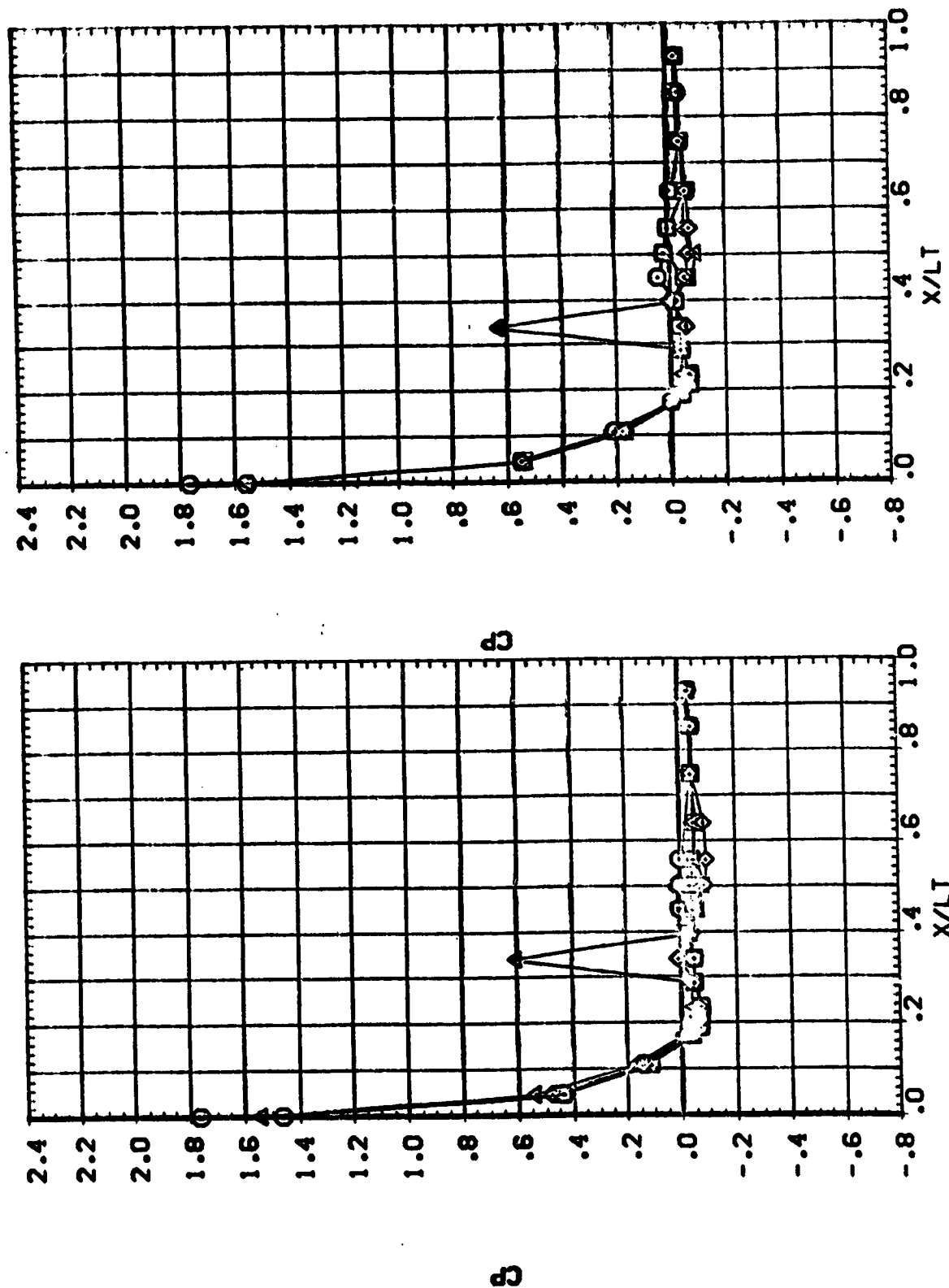
AVES 87-707 1A9 C2A - S3 - 19 EXTERNAL TANK (RBN'00)

SYNCH
 P-1
 .000
 30.000
 60.000
 90.000

ALPHA-1
 -4.070
 -.030

MACH
 3.502

PARAMETRIC VALUES
 BETAT
 R-DOER
 R-DOER
 .000
 .000
 .000
 .000
 .000
 .000

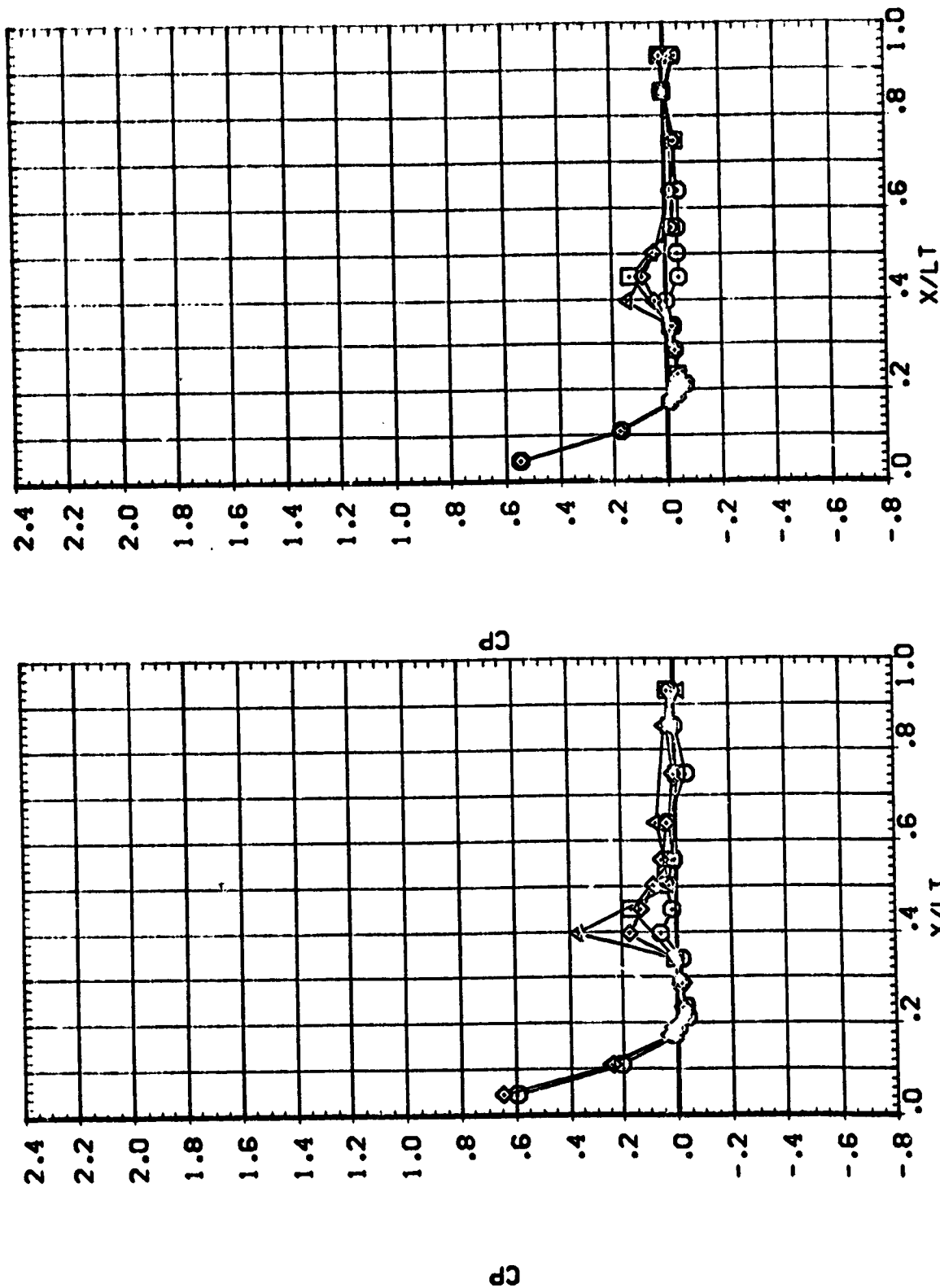


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

S-VEG
 120.000
 135.000
 150.000
 165.000

ALPHAT MACH
 -4.070 3.502
 -.030

PARAMETRIC VALUES
 BETAT .000 0.000
 RUOER .000 0.000
 RUJLR .000 0.000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

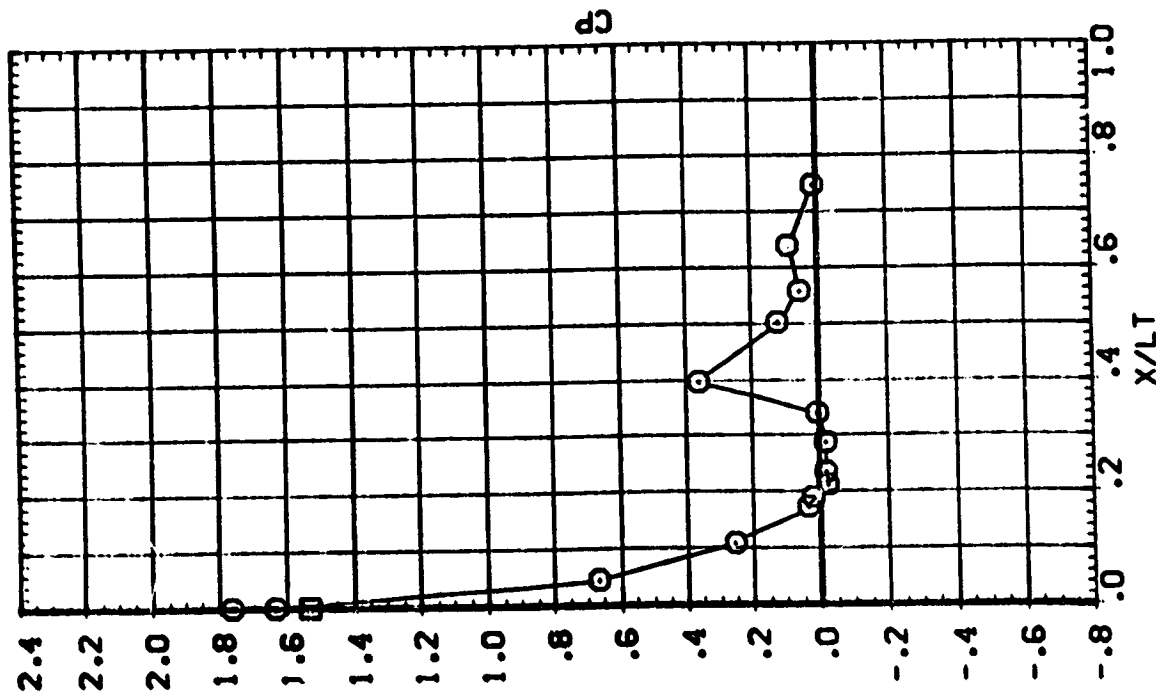
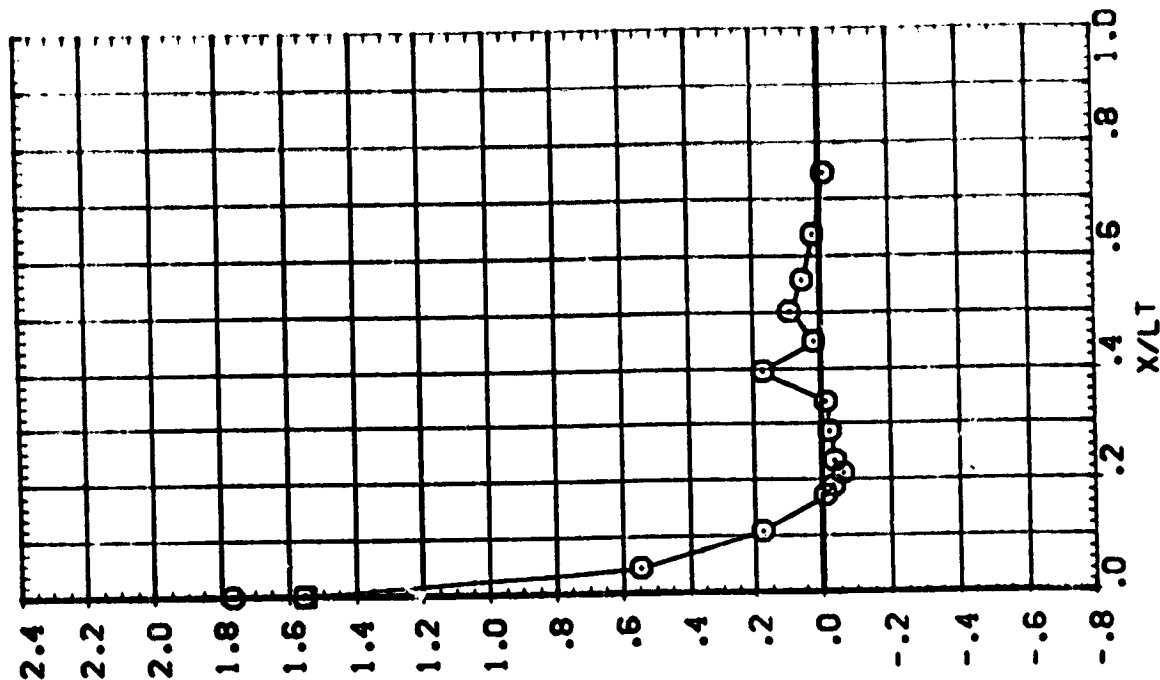
(RBNIC)

AV: S 87-707 :A9 02A - S3 - 19 EXTERNAL TANK

PARAMETRIC VALUES
 .000 OFFINC
 .000 ELEVON
 .000

BETAT
 RUDDER
 RUFLR

SYSC
 .000
 770.000
 ALPHAT
 -4.070
 -0.030
 WAC
 3.502

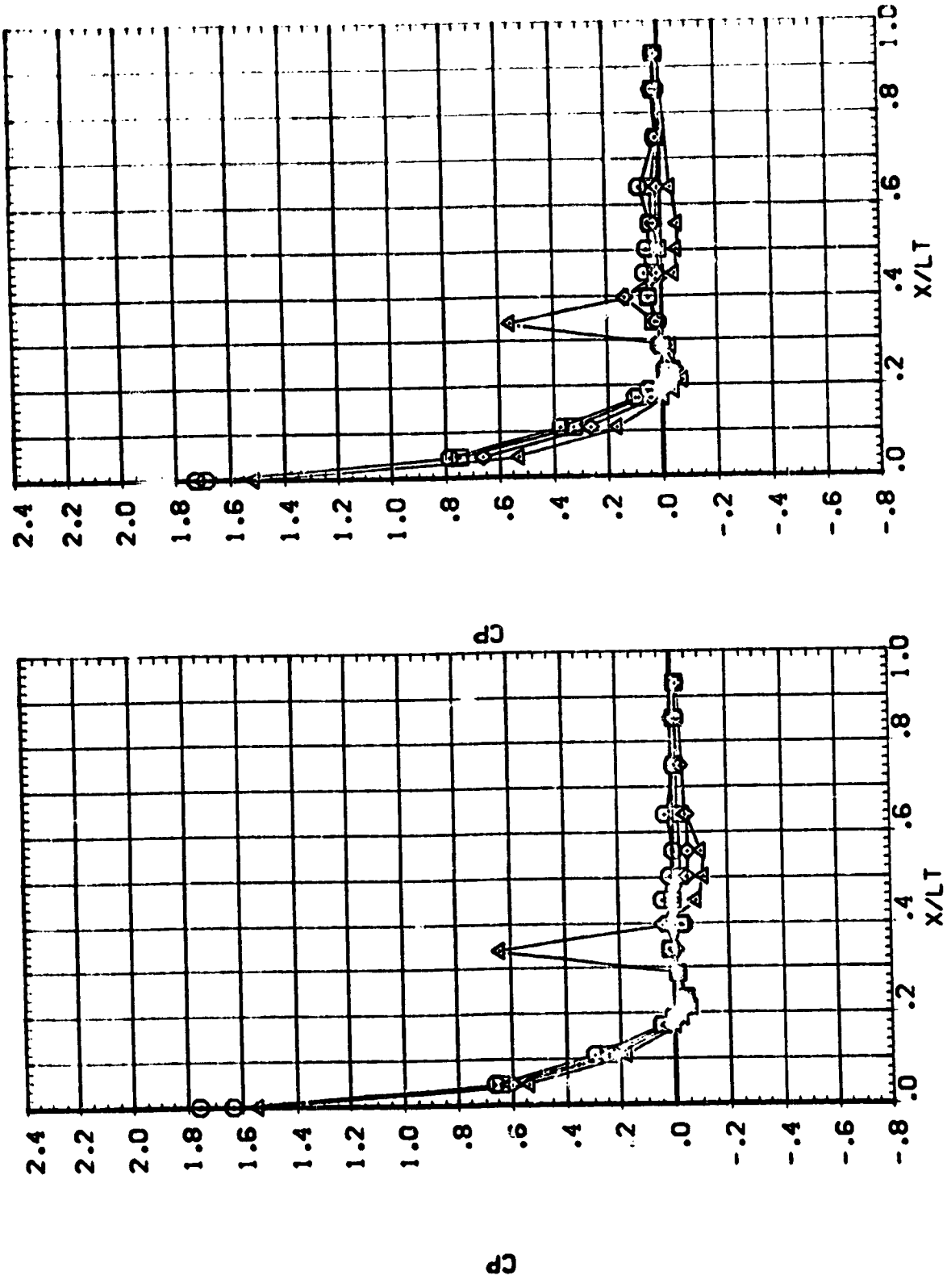


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

SYMBOL
 ○
 □
 ◇
 △

PAI ALPHA7 MAC-
 .000 3.960 3.502
 30.000 8.010
 60.000
 90.000

PARAMETRIC VALUES
 BETAT .000 598.10
 RUDDER .000 1.000
 RUDDLR .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AVES 87-707 :A9 C2A - S3 - 19 EXTERNAL TANK (RBNTO:)

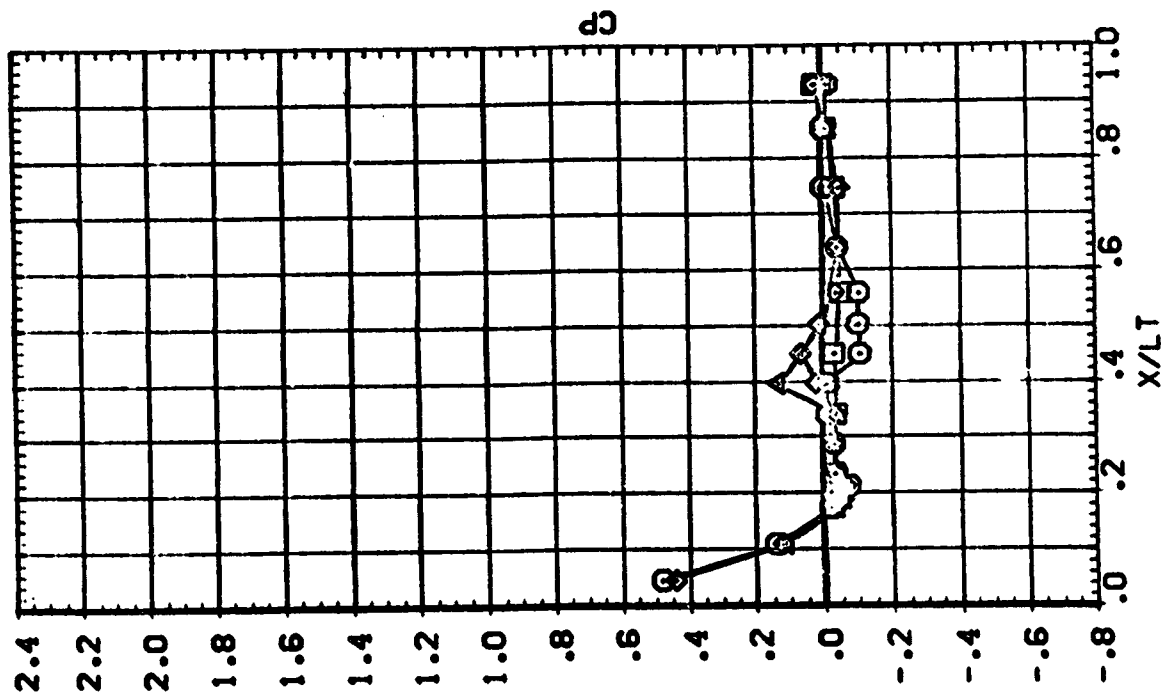
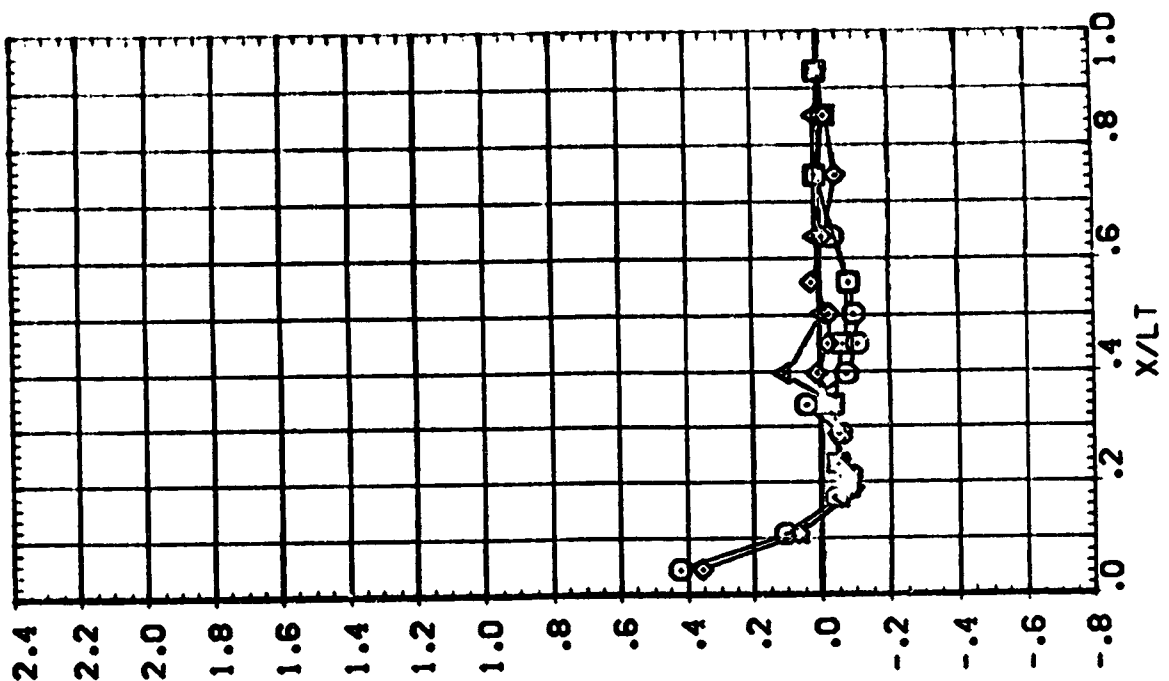
SWRQ
 O
 X
 Δ

PH: 120.000
 135.000
 150.000
 165.000

ALPHAT 3.552
 8.510

WACH 3.552

PARAMETRIC VALUES
 BETAT .000
 RLODR .000
 RLOFLR .000
 DRBINC .000
 ELEVEN .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

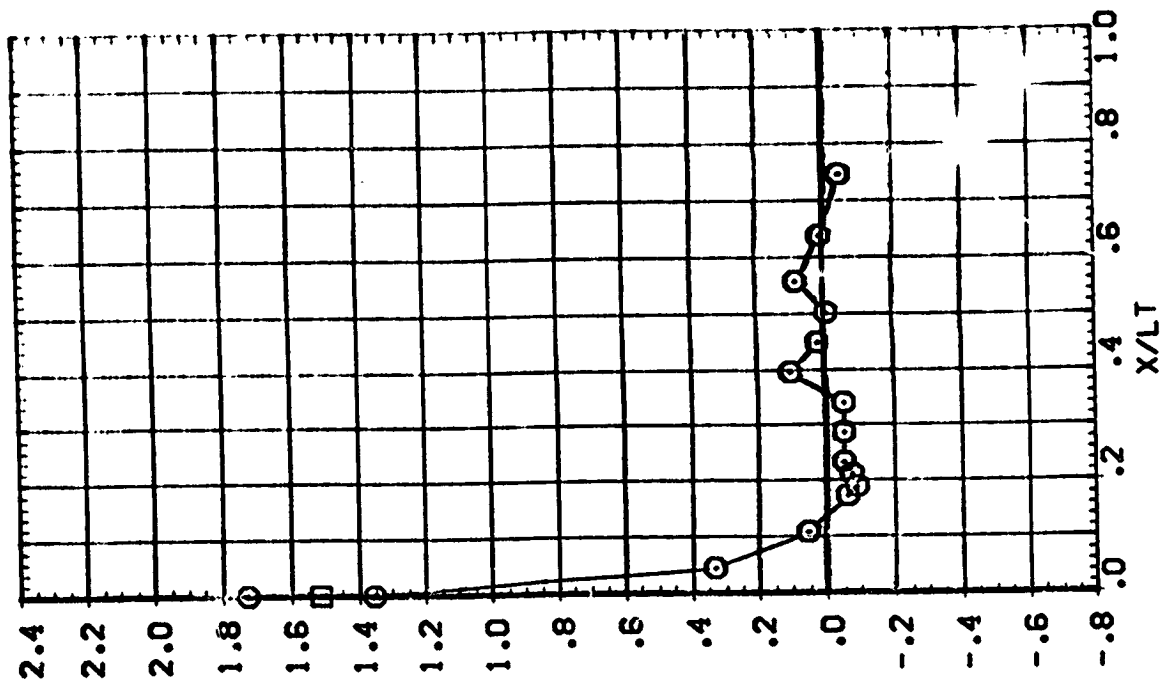
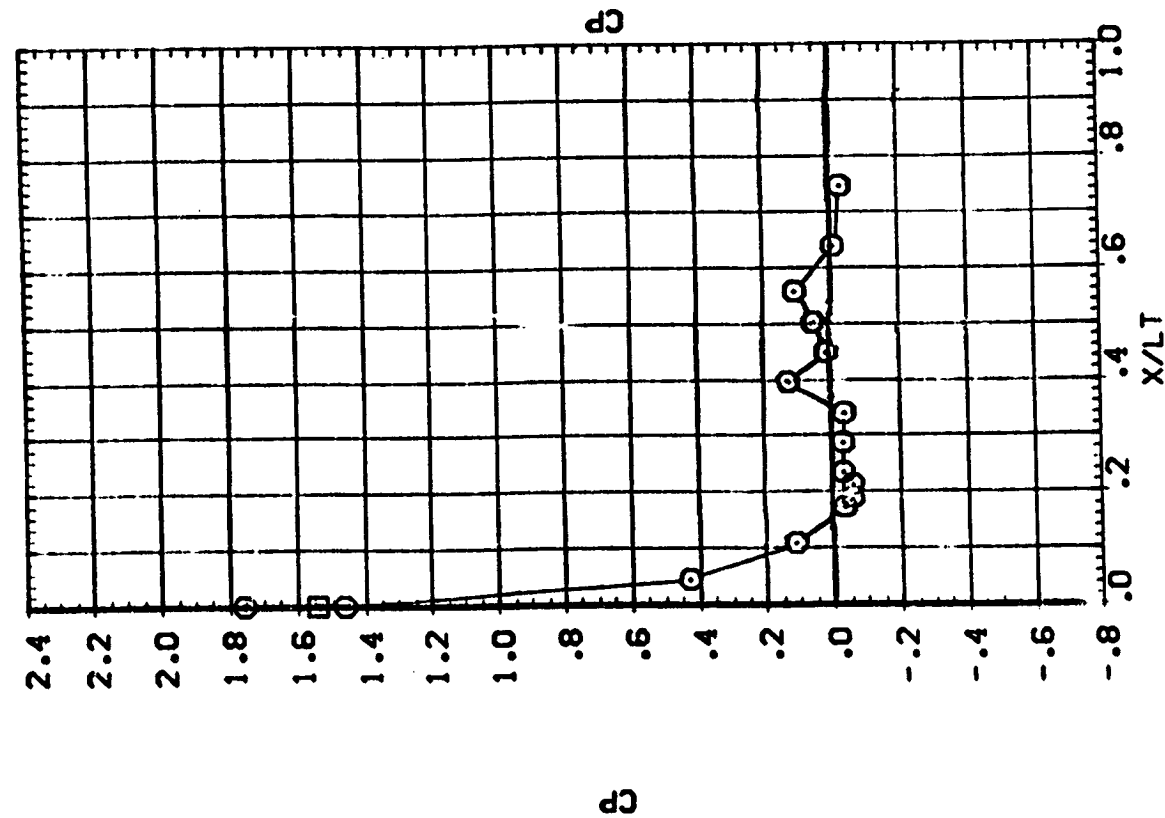
SYNCH

180.000
270.000

ALPHA
3.950
8.010

WACH
3.502

PARAMETRIC VALUES
BETA
RHO
RHO
ELEV
500
500
500
500



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

SIMUL
1
2
3
4

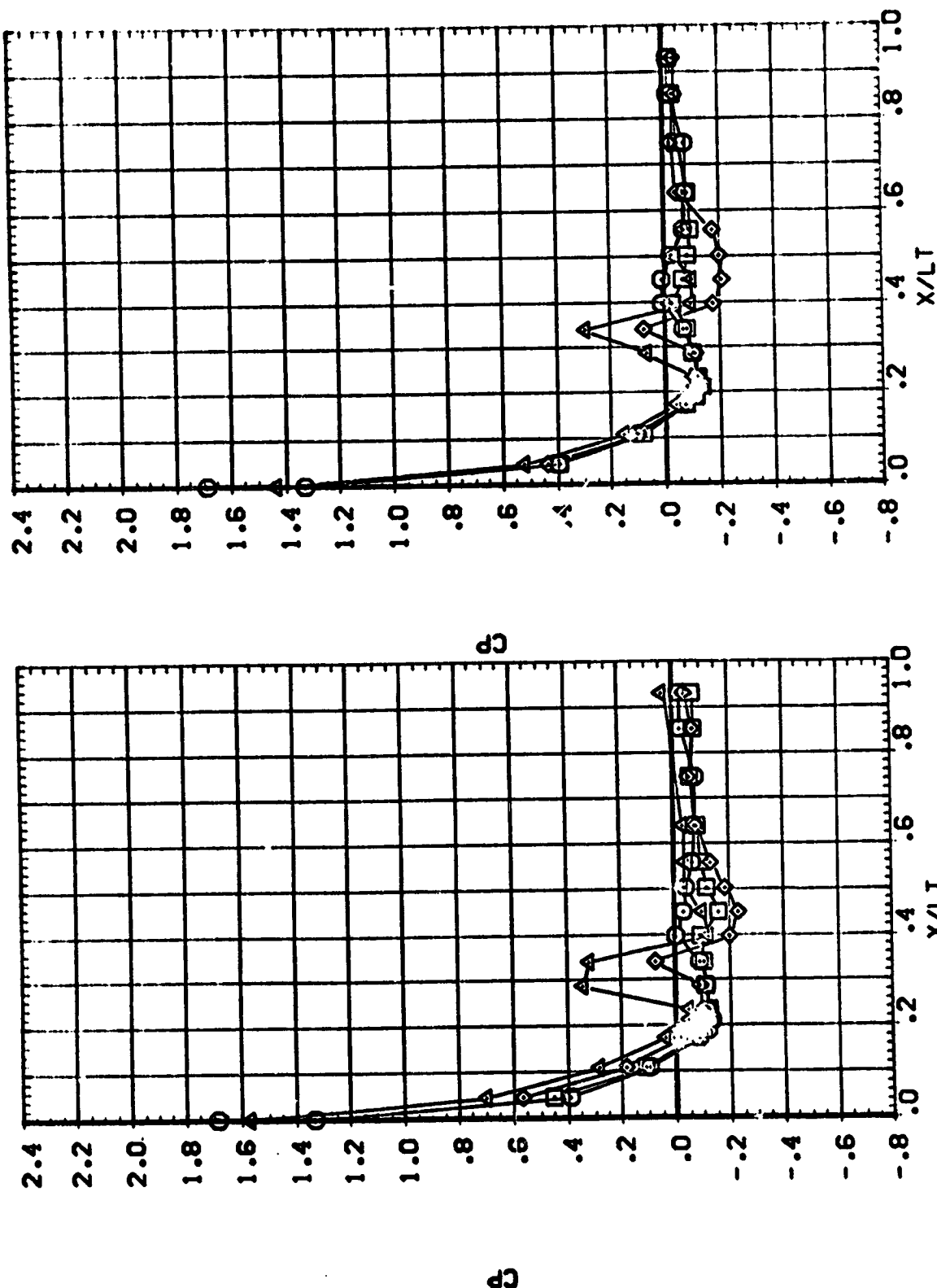
PH: .000
30.000
60.000
90.000

BETA: -4.17C
2.18C

MACH: 2.498

PARAMETRIC VALUES
ALPHAT -8.000
RLODER .000
RLOFLR .000

.500
.000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

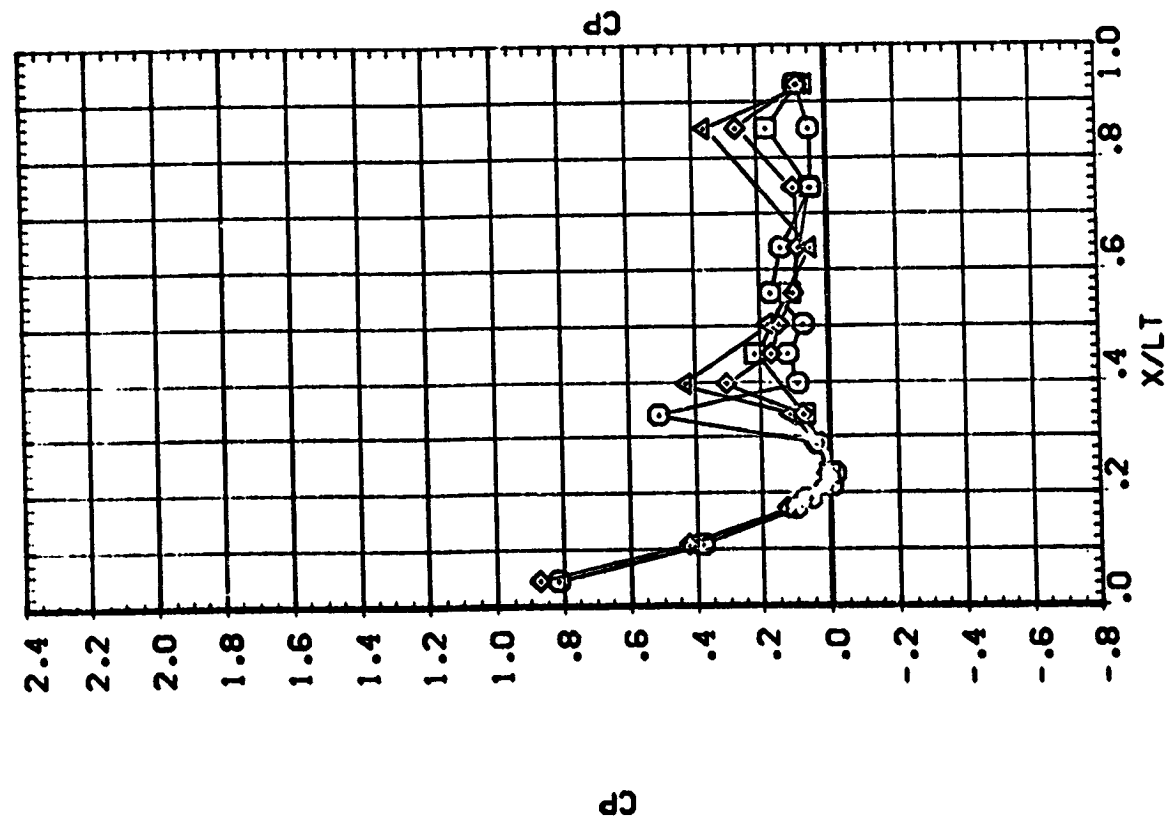
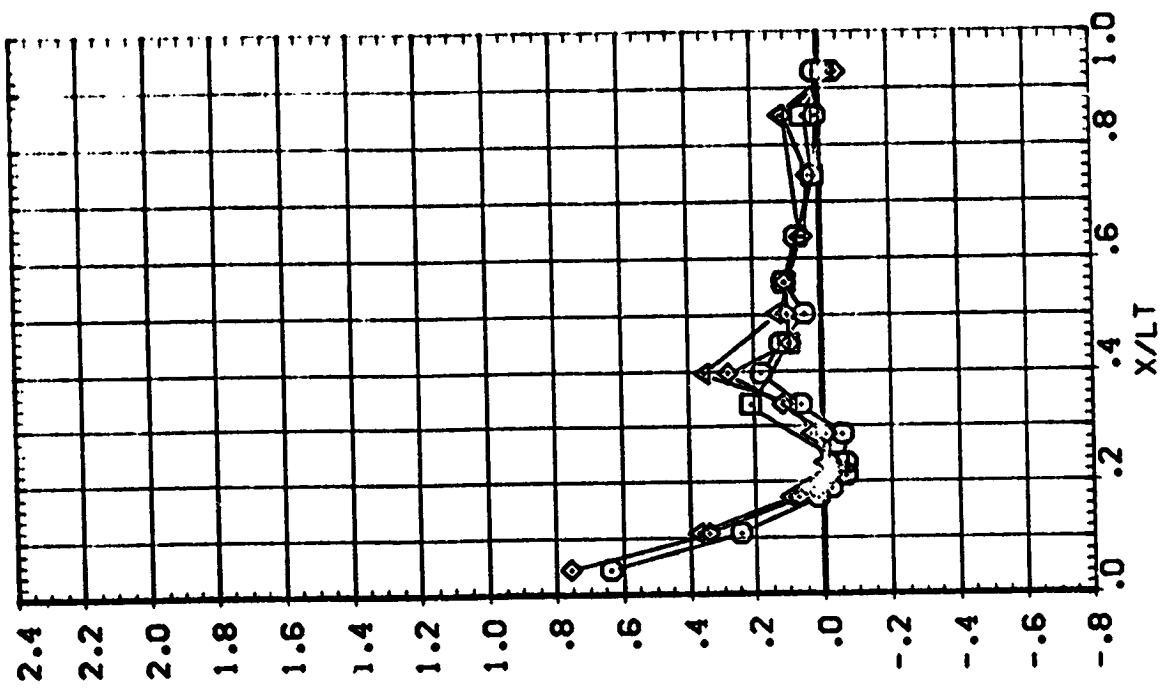
SV: 20.000
 35.000
 50.000
 65.000

BEAT: 4.170
 2.80

WAC: 2.498

ALPHA: 8.000
 RUDDER: .000
 RUDLR: .000

PARAMETRIC VALUES
 ORIGIN: .500
 ELEV: .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

[RBNT02]

AVES 87-707 :A9 C2A - S3 + 19 EXTERNAL TANK

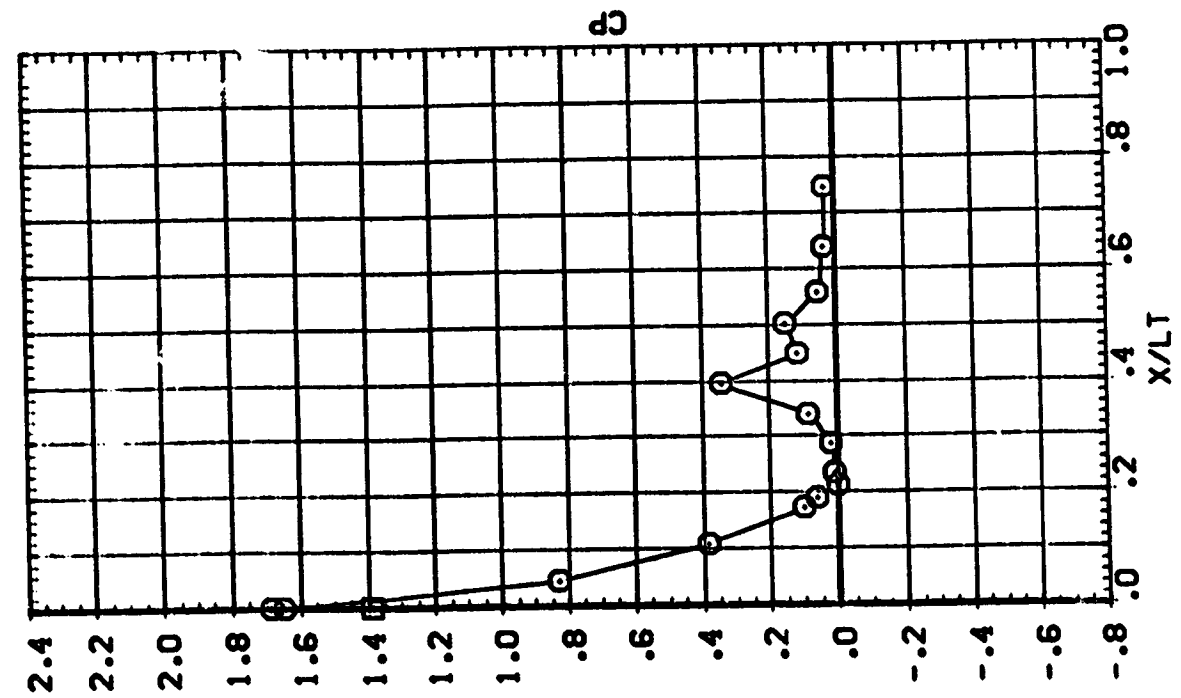
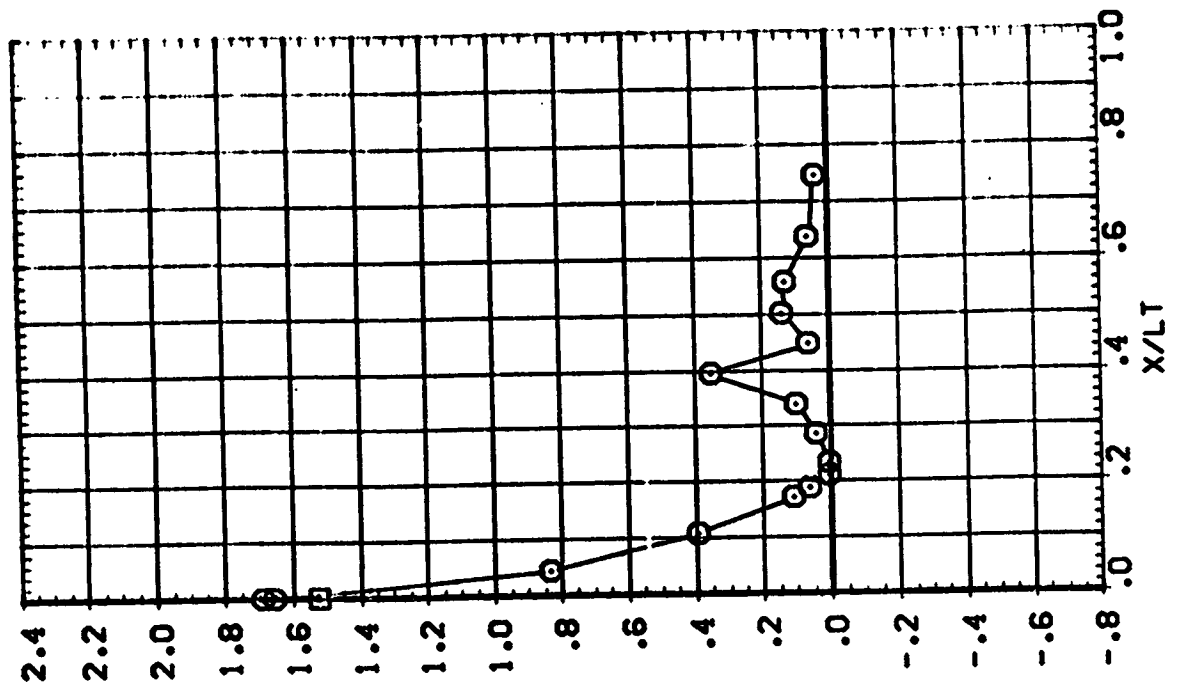
SYNCD
☐ ☐

PH: 180.000
 270.000

BE "A" MAC-
 -4.170 2.498
 2.180

PARAMETRIC VALUES
 ALPHAT -8.000 DB:NC
 RJOER .000 ELEVN
 RJOFLR .000

.500
 .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

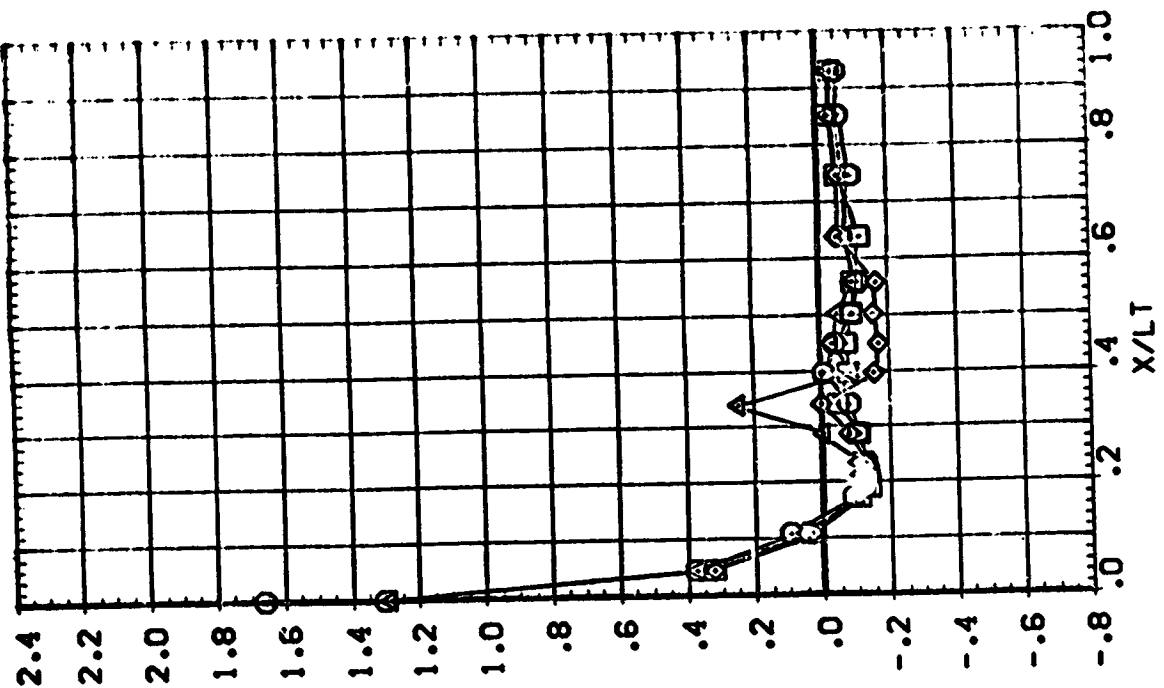
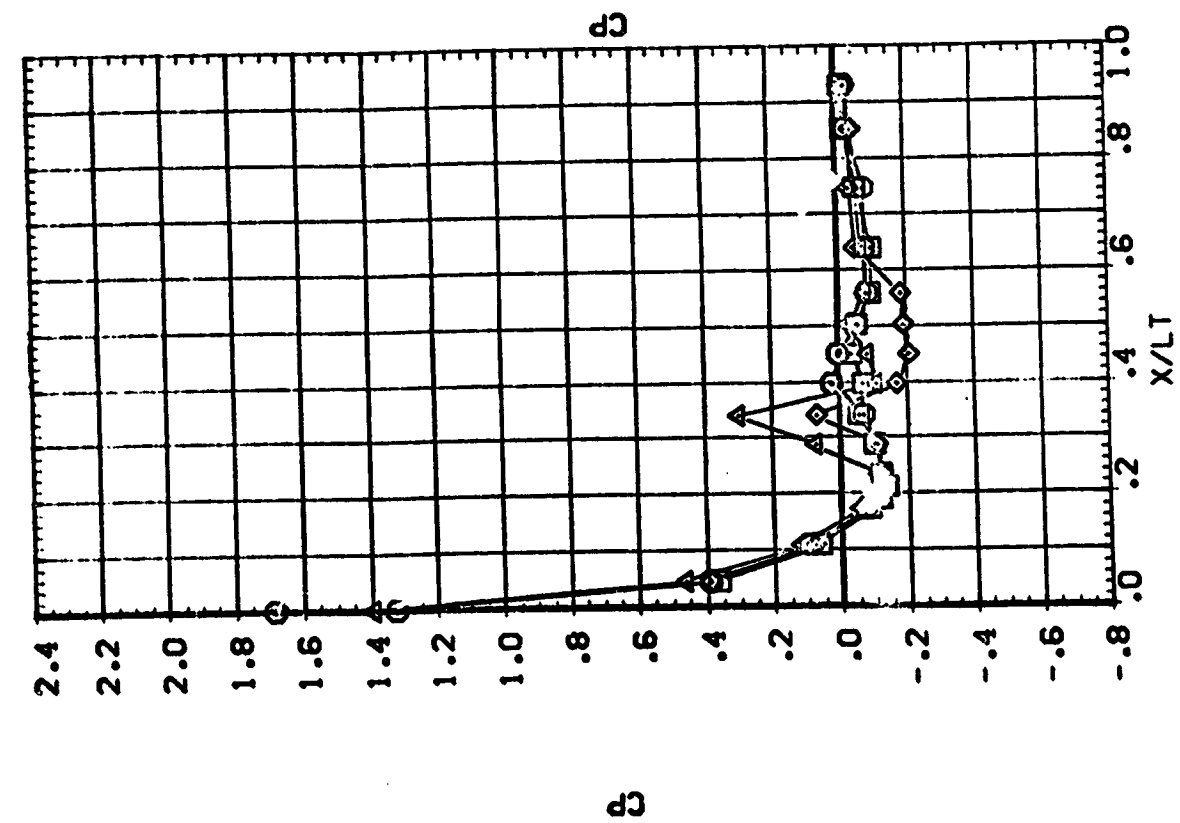
2.428
VAC

ALPHA?
RIDER
RJDFLR

888

2000

三



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

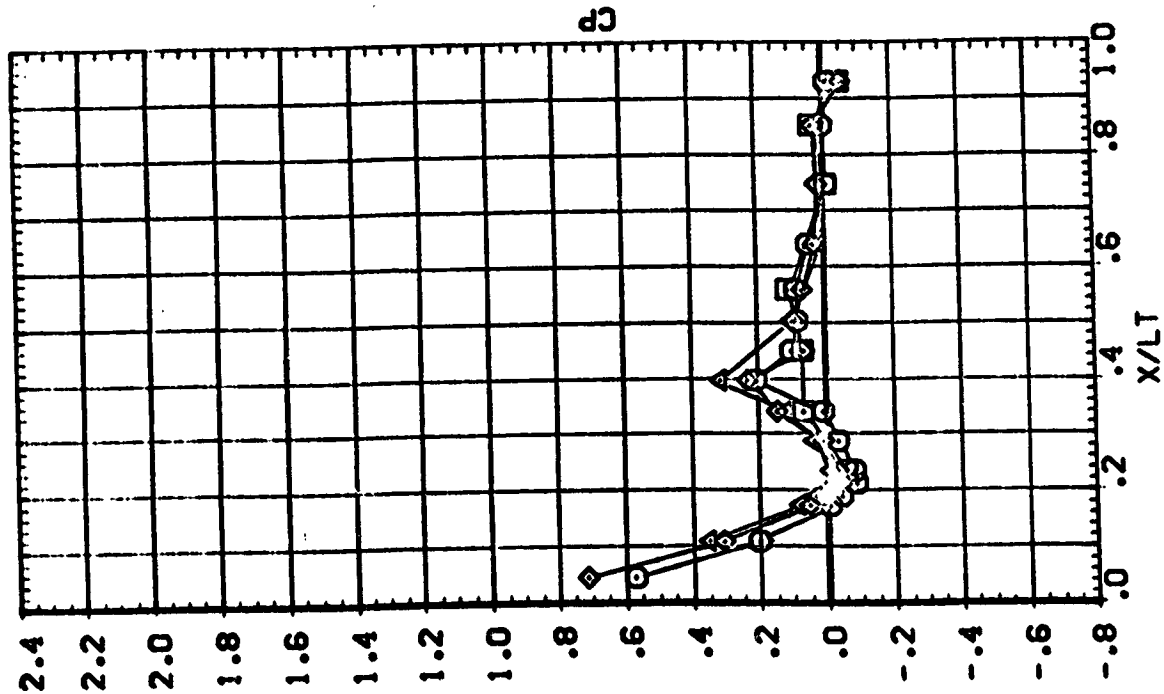
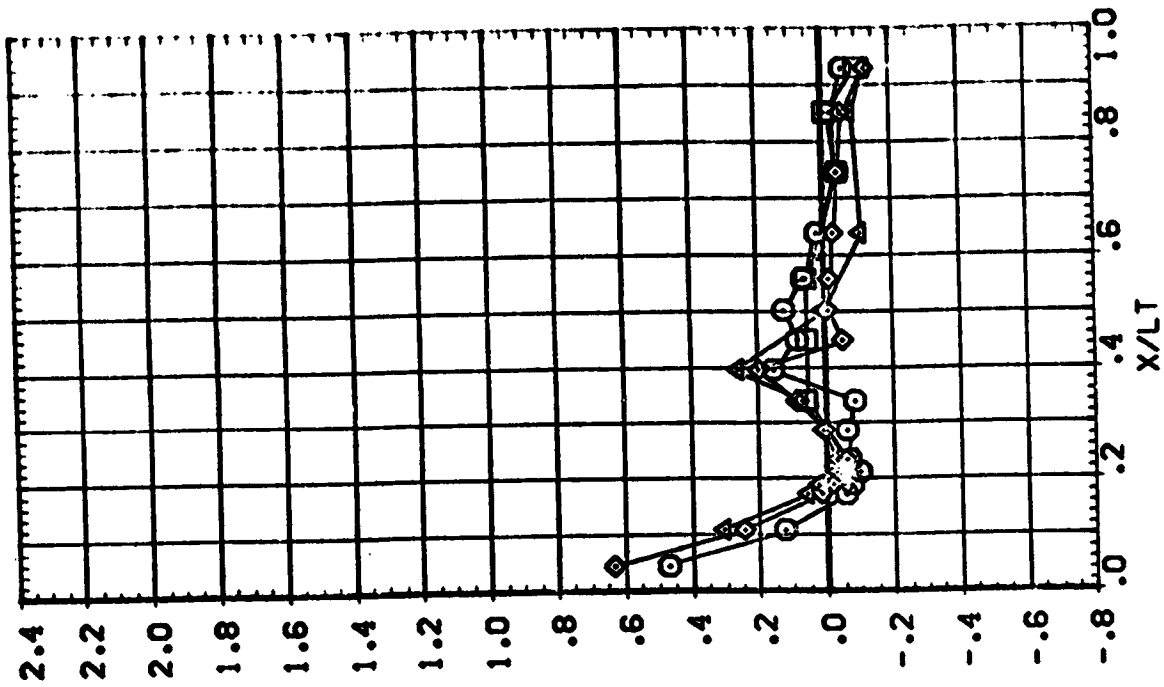
SYMBOL
 O
 D
 A

DELTA
 :20.000
 :35.000
 :50.000
 :65.000

BEAT
 4.300
 8.590

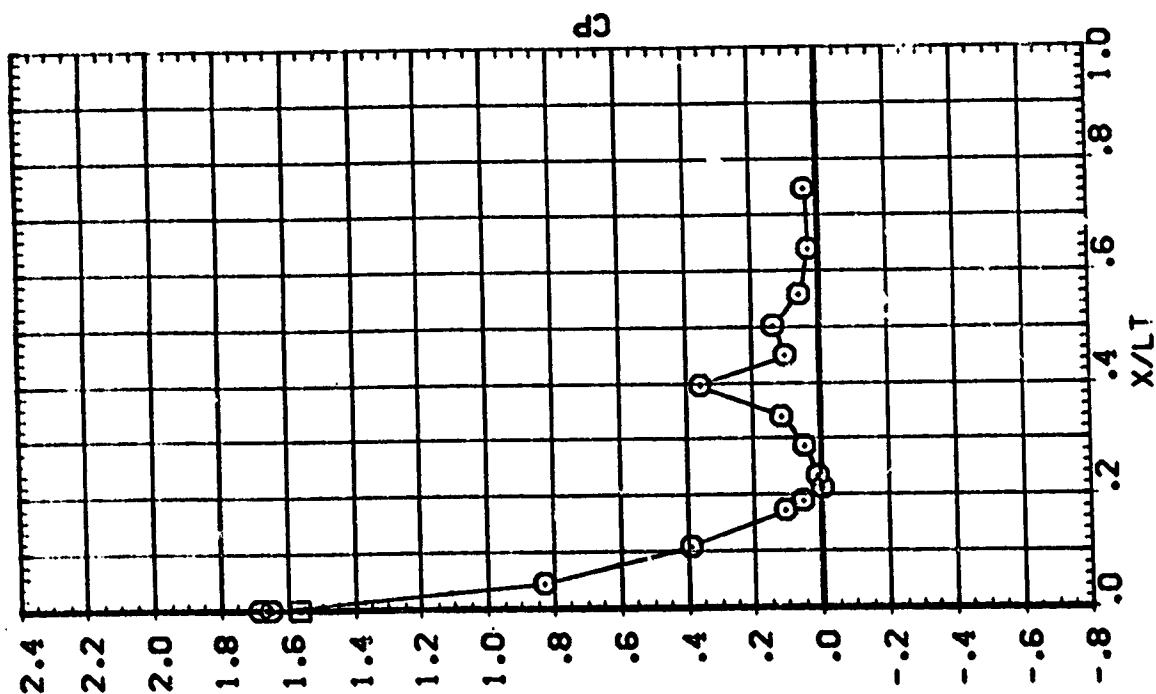
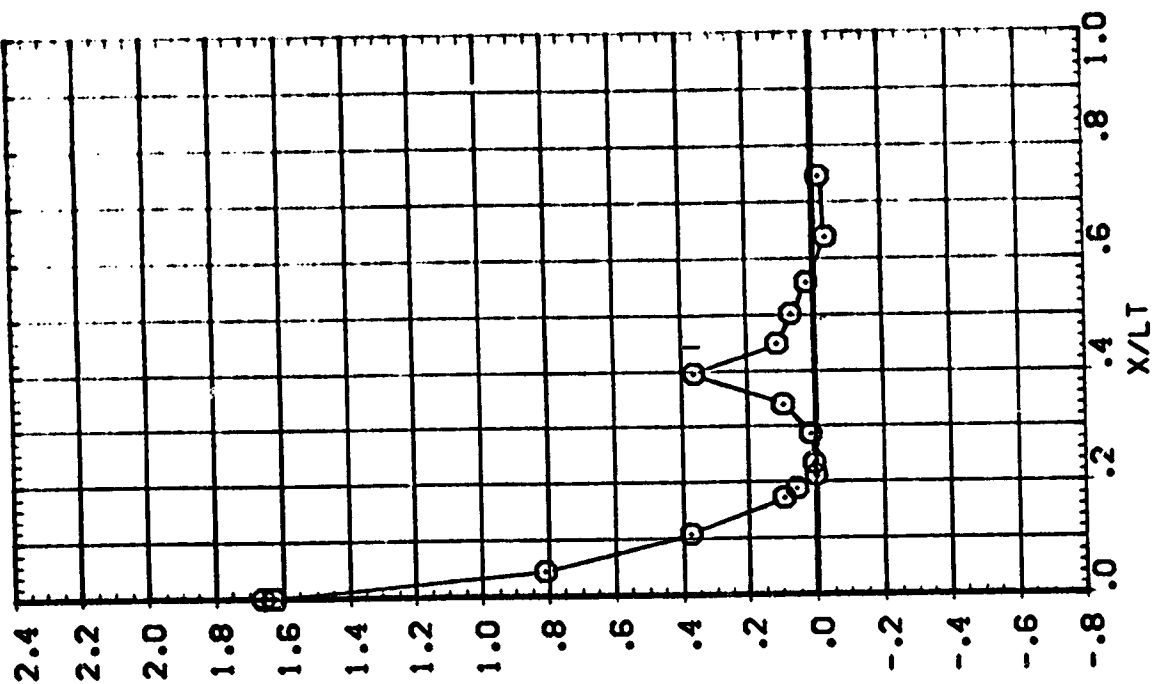
WACH
 2.499

PARAMETRIC VALUES
 ALPHAT -8.000 DBB:NC .500
 RUDDER .000 ELEVON .000
 RUOTLR .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

	2.498	4.370	8.636	16.272	32.544	65.088	130.176	260.352	520.704	1041.408	2082.816	4165.632	8331.264	16662.528	33325.056	66650.112	133300.224	266600.448	533200.896	1066401.792	2132803.584	4265607.168	8531214.336	17062428.672	34124857.344	68249714.688	136499429.376	272998858.752	545997717.504	1091995435.008	2183990870.016	4367981740.032	8735963480.064	17471926960.128	34943853920.256	69887707840.512	139775415680.000	279550831360.000	559101662720.000	1118203325440.000	2236406650880.000	4472813301760.000	8945626603520.000	17891253207040.000	35782506414080.000	71565012828160.000	143130025656320.000	286260051312640.000	572520102625280.000	1145040205250560.000	2290080410501120.000	4580160821002240.000	9160321642004480.000	18320643284008960.000	36641286568017920.000	73282573136035840.000	146565146272071680.000	293130292544143360.000	586260585088286720.000	1172521170176573440.000	2345042340353146880.000	4690084680706293760.000	9380169361412587520.000	18760338722825175040.000	37520677445650350080.000	75041354891300700160.000	150082709782601400320.000	300165419565202800640.000	600330839130405601280.000	1200661678260811202560.000	2401323356521622405120.000	4802646713043244810240.000	9605293426086489620480.000	19210586852172979240960.000	38421173704345958481920.000	76842347408691916963840.000	153684694817383833927680.000	307369389634767667855360.000	614738779269535335710720.000	1229477558539070671421440.000	2458955117078141342842880.000	4917910234156282685685760.000	9835820468312565371371520.000	19671640936625130742743040.000	39343281873250261485486080.000	78686563746500522970972160.000	157373127493001045941944320.000	314746254986002091883888640.000	629492509972004183767777280.000	1258985019944008367535554560.000	2517970039888016735071109120.000	5035940079776033470142218240.000	10071880159552066940284436480.000	20143760319104133880568872960.000	40287520638208267761137745920.000	80575041276416535522275491840.000	161150082552833071044550983680.000	322300165105666142089101967360.000	644600330211332284178203934720.000	1289200660422664568356407869440.000	2578401320845329136712815738880.000	5156802641690658273425631477760.000	10313605283381316546851262955520.000	20627210566762633093702525911040.000	41254421133525266187405051822080.000	82508842267050532374810103644160.000	165017684534101064749620207288320.000	330035369068202129499240414576640.000	660070738136404258998480829153280.000	1320141476272808517996961658306560.000	2640282952545617035993923316613120.000	5280565905091234071987846633226240.000	10561131810182468143975693266452480.000	21122263620364936287951386532904960.000	42244527240729872575902773065809920.000	84489054481459745151805546131619840.000	168978108962919490303611092263239680.000	337956217925838980607222184526479360.000	675912435851677961214444369052958720.000	1351824871703355922428888738105917440.000	2703649743406711844857777476211834880.000	5407299486813423689715554952423669760.000	10814598973626847379431109904847339520.000	21629197947253694758862219809694679040.000	43258395894507389517724439619389358080.000	86516791789014779035448879238778716160.000	173033583578029558070897758477557432320.000	346067167156059116141795516955114864640.000	692134334312118232283591033910229729280.000	1384268668624236464567182067820459458560.000	2768537337248472929134364135640918917120.000	5537074674496945858268728271281837834240.000	11074149348993891716537456542563675668480.000	22148298697987783433074913085127351336960.000	44296597395975566866149826170254702673920.000	885931947919511337322996523405094
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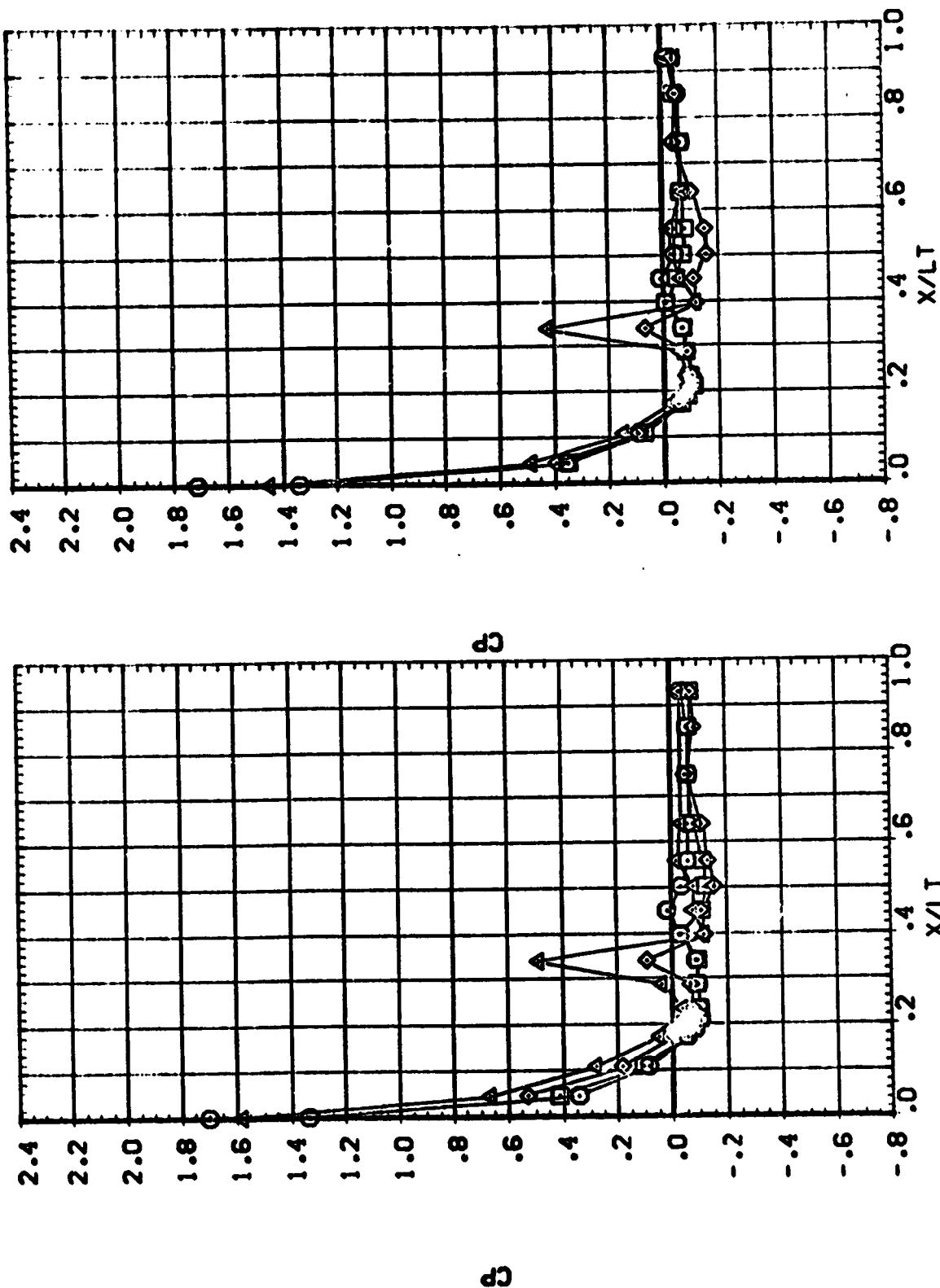


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

SYSC
0.000
30.000
60.000
90.000

BEAT MACH
-4.250 2.999
2.730

PARAMETRIC VALUES
ALPHAT -8.000 098:NC .500
RDOER .000 ELEVON .000
RDOFLR .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

[RBNTC2]

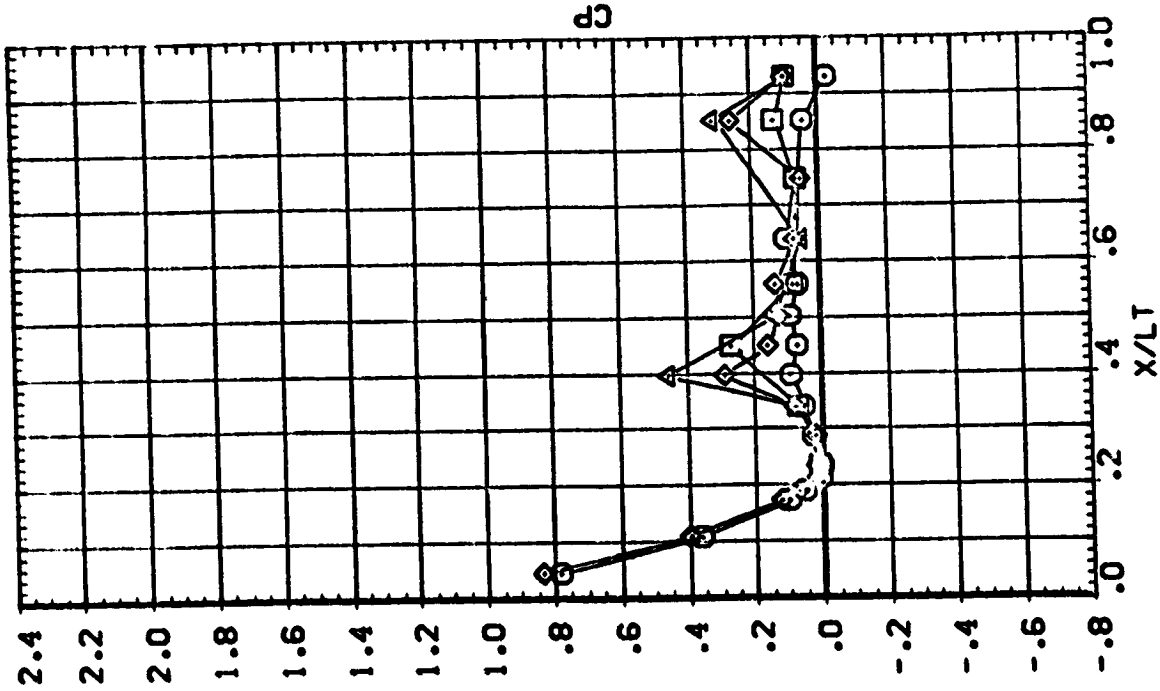
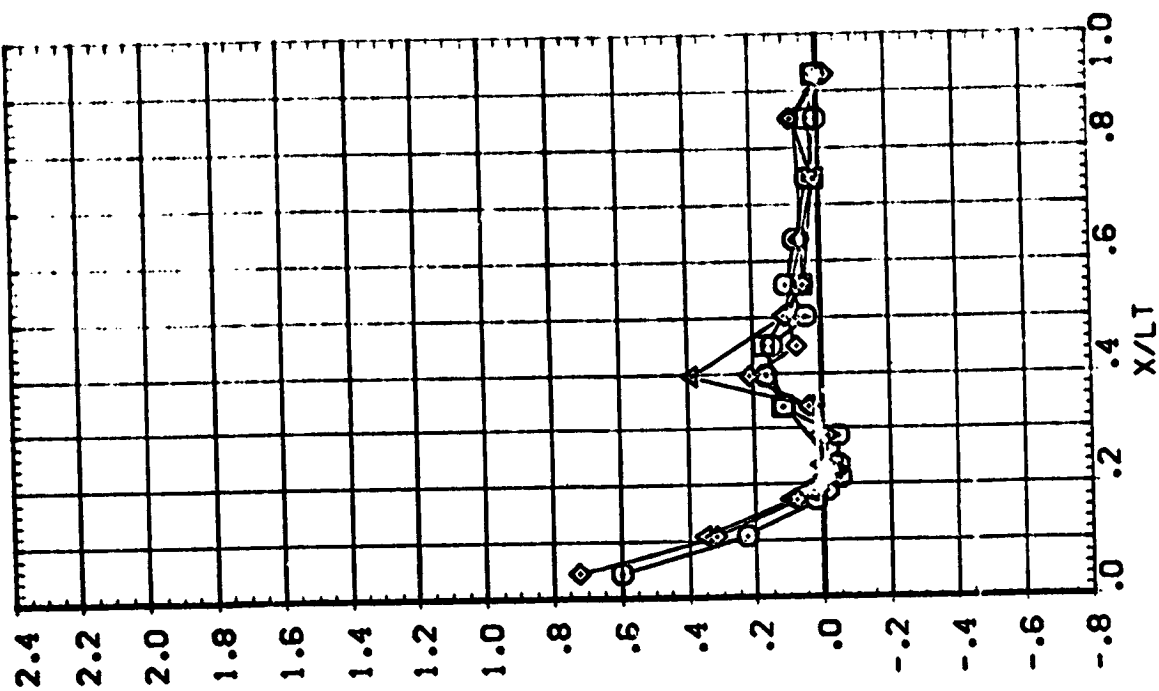
AVES 87-707 1A9 C2A - S3 - 19 EXTERNAL TANK

PARAMETRIC VALUES
 -8.000
 .000
 .000
 .000
 .000
 .000

ALPHAT
 RUDDER
 RUFLR

BETAT
 -4.250
 2.230

SWING
 :70.000
 :35.000
 :50.000
 :65.000

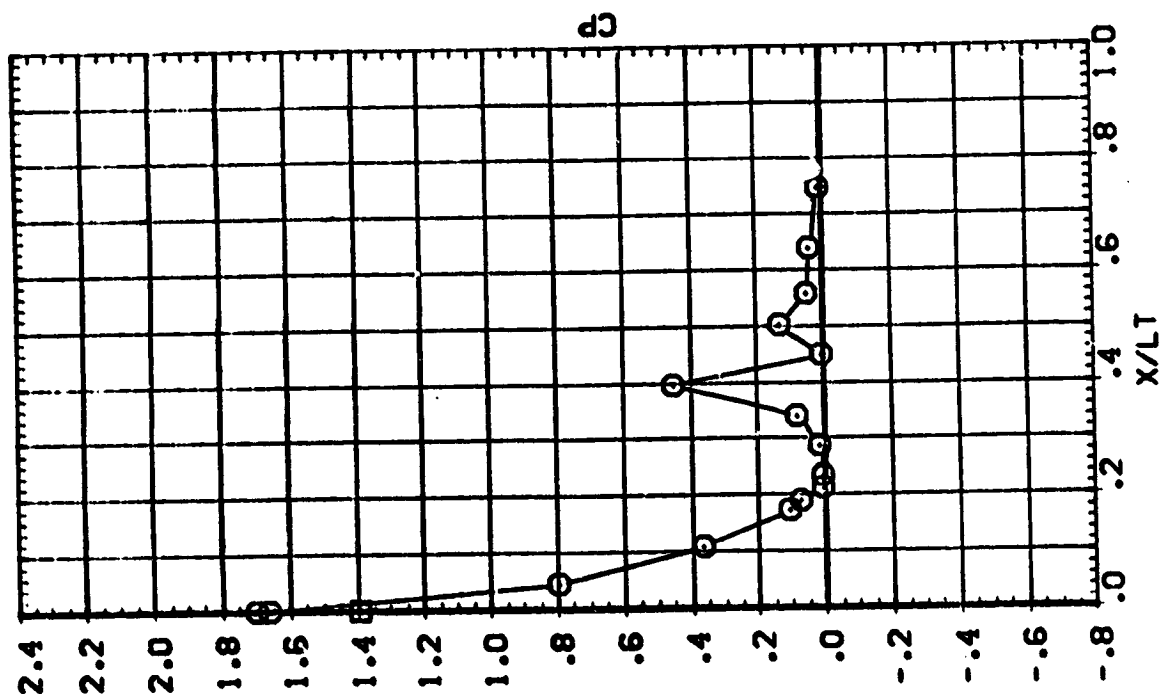
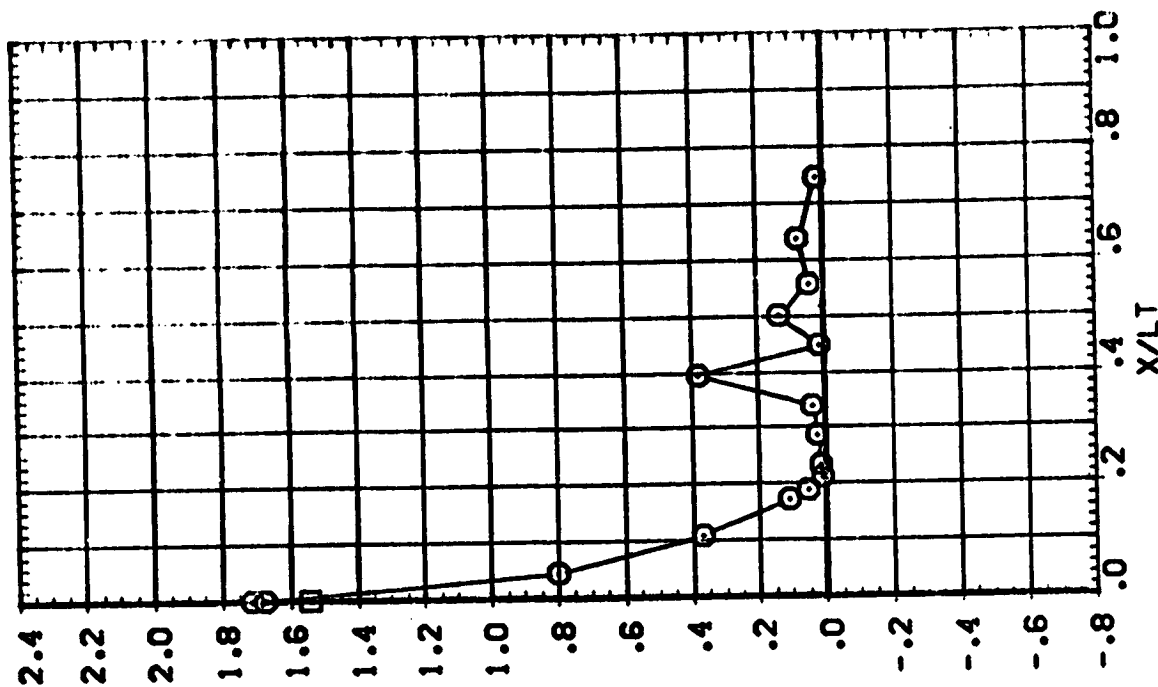


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AYES 87-707 1A9 C7A - S3 - 9 EXTERNAL TANK (RBN 02)

PARAMETRIC VALUES
 ALPHA -8.000 0.000
 RUDER .000 ELEVON .000
 RUDER .000

SWING 180.000 270.000
 C 1
 BETAT -4.250 7.230
 MACH 2.999



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

(RBN C2)

AVES 87-707 :A9 C2A - S3 + '9 EXTERNAL TANK

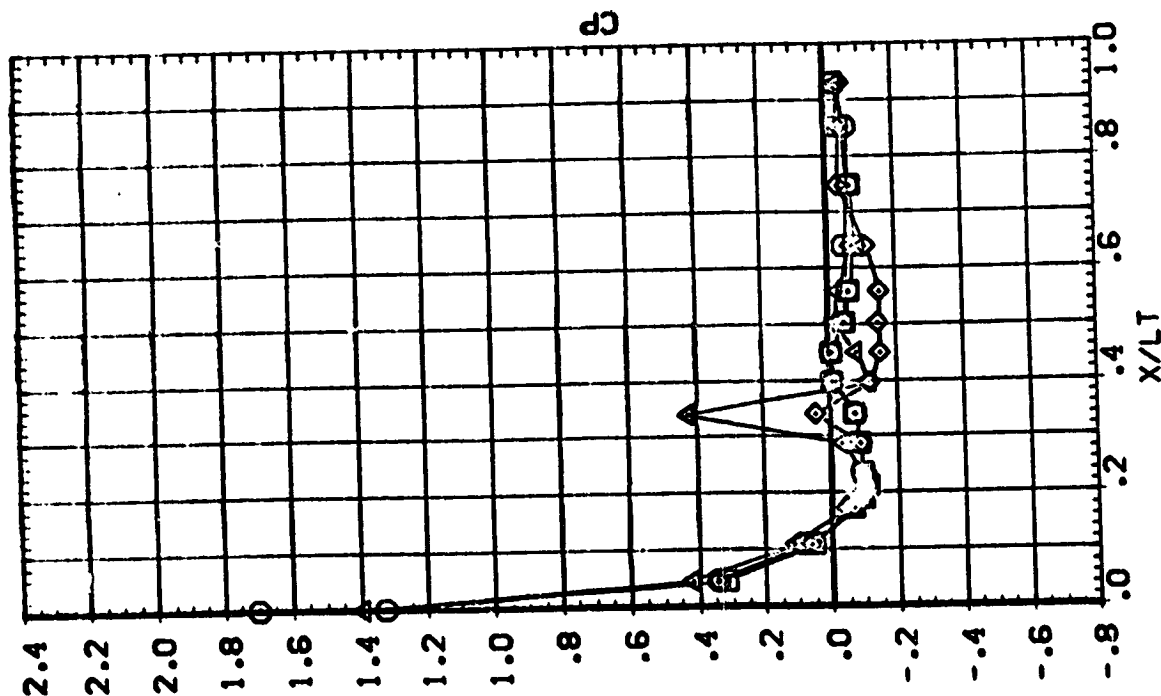
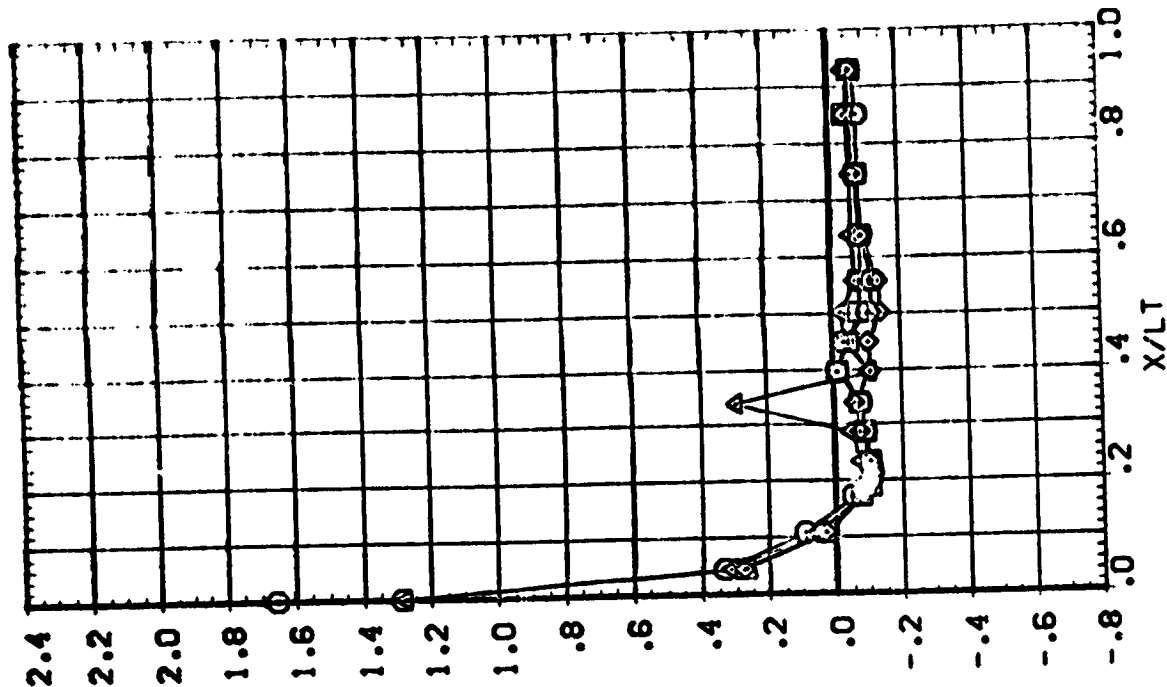
SYNOPSIS
 ○ ○ ○
 ◇ △

PM: 1000
 30,000
 60,000
 90,000

BEAT: 4.400 2.999
 8.750

ALPHA:
 RUDDER
 RUDDER

PARAMETRIC VALUES
 -8.000 0.000
 1.000 1.000
 1.000 1.000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AVES 87-707 1A9 C2A + S3 - 19 EXTERNAL TANK (RBN C2)

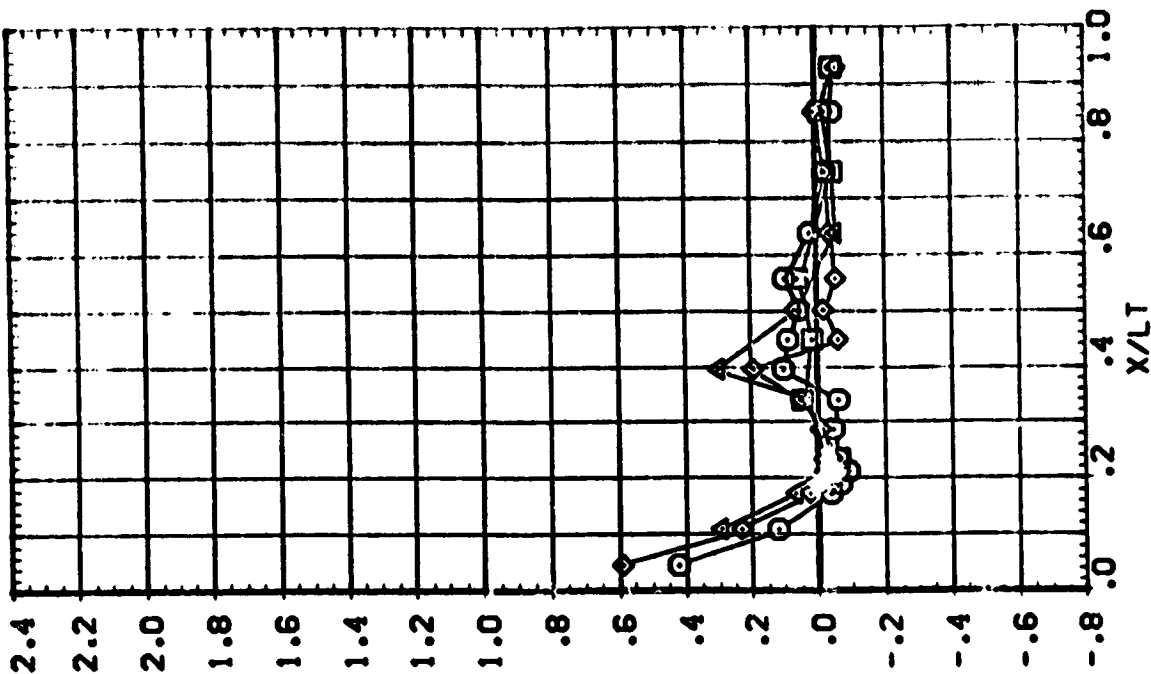
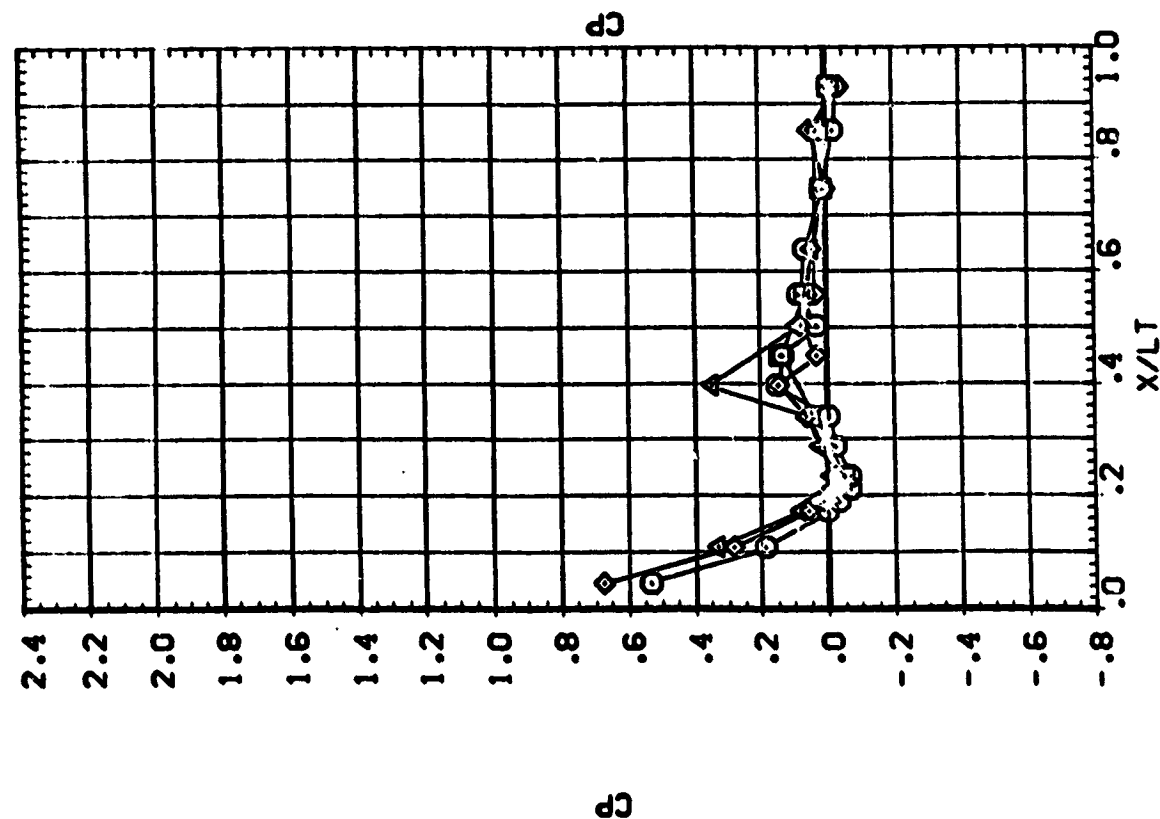
5.000

120.000
135.000
150.000
165.000

BEAT 4.400
8.750

MAC 2.999

PARAMETRIC VALUES
ALPHA -8.000 999.0
RUDDER 1.000 ELEVON 1.000
ROTOR 1.000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

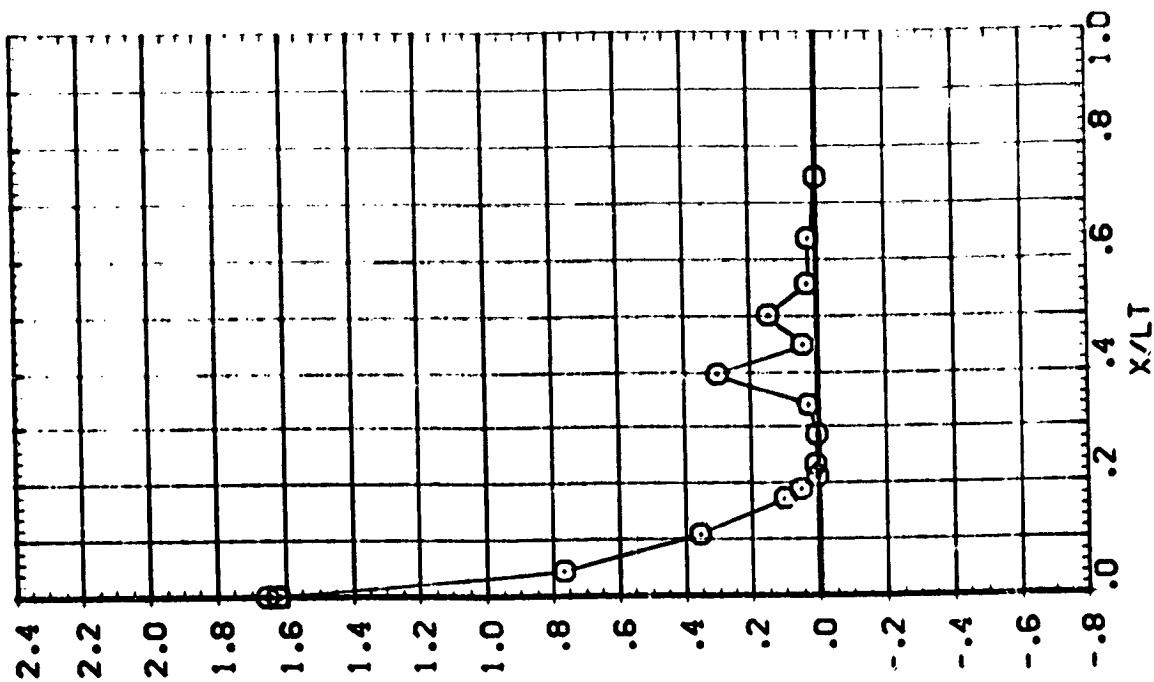
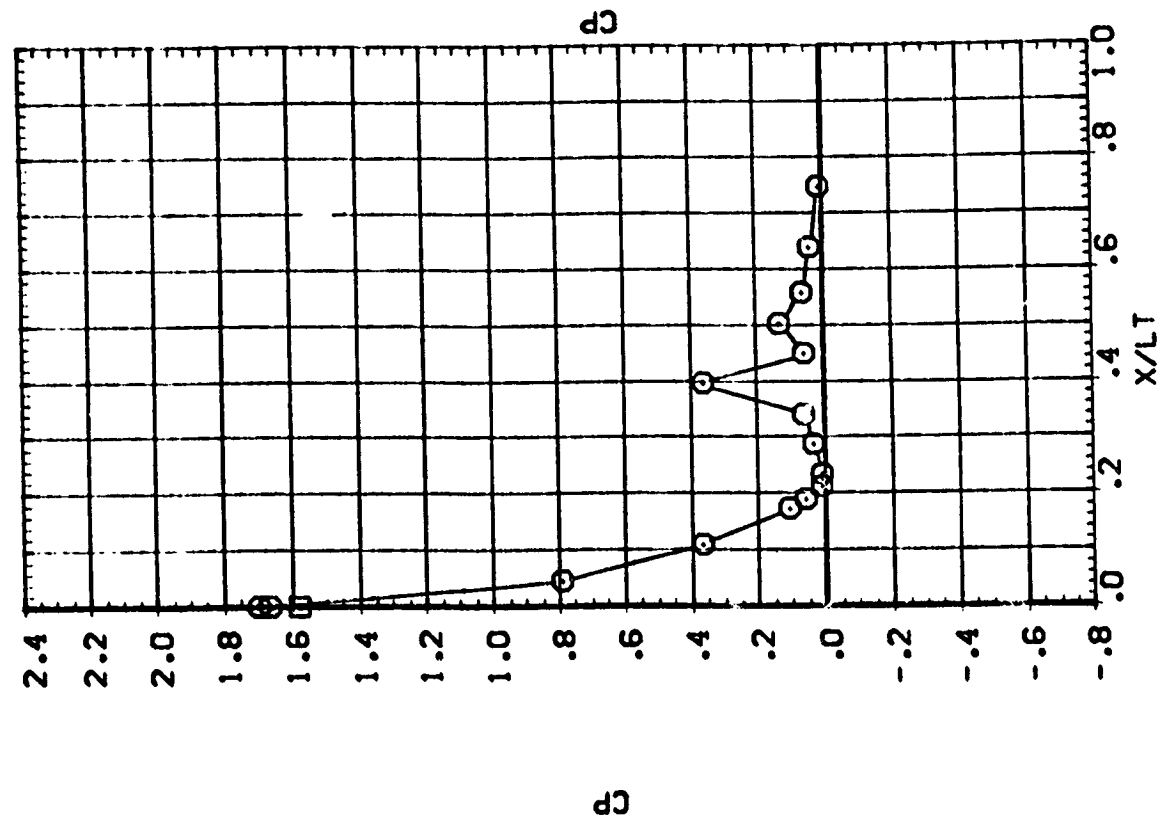
AVES 87-707 :A9 C2A - S3 - 19 EXTERNAL TANK (CONT'D)

SIMCO
 :80.000
 270.000

BEAT
 4.400
 8.750

MACH
 2.999

PARAMETRIC VALUES
 AREA
 RUGGER
 RUGLER
 -8.000
 .000
 .000
 .000
 .000
 .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AVES 87-0001 INU JJA 0 JJ J CHIL 1111

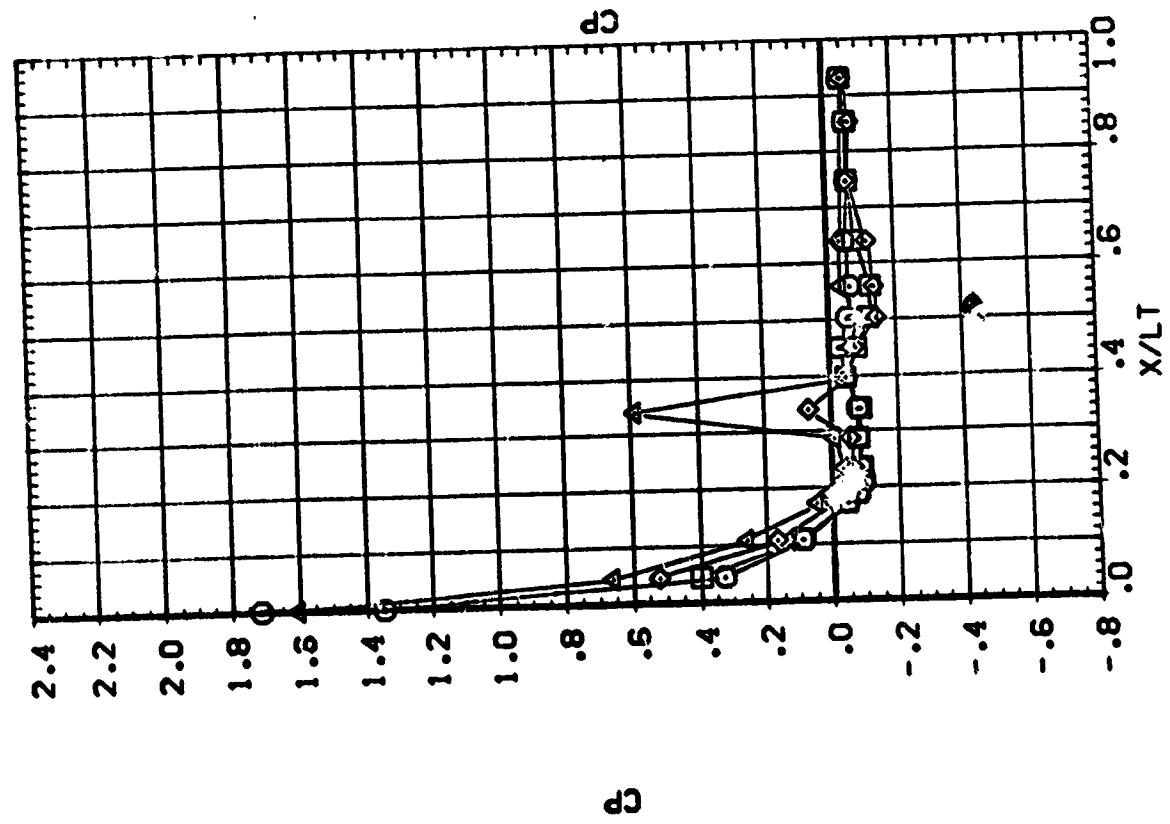
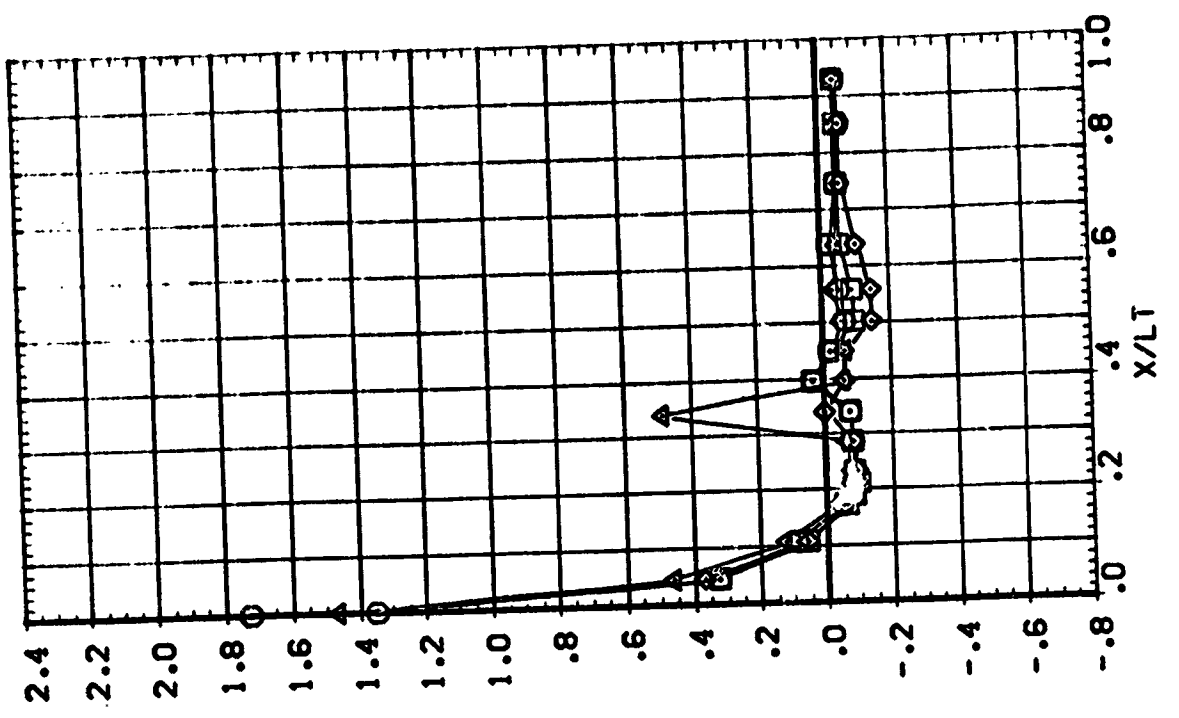
S-MSC
 .000
 30.000
 60.000
 90.000

BETA
 -4.330
 2.260

MACH
 3.502

PARAMETRIC VALUES
 ALPHAT
 -8.300
 RUDER
 .000
 RUDLR
 .000

595C
 .500
 .000

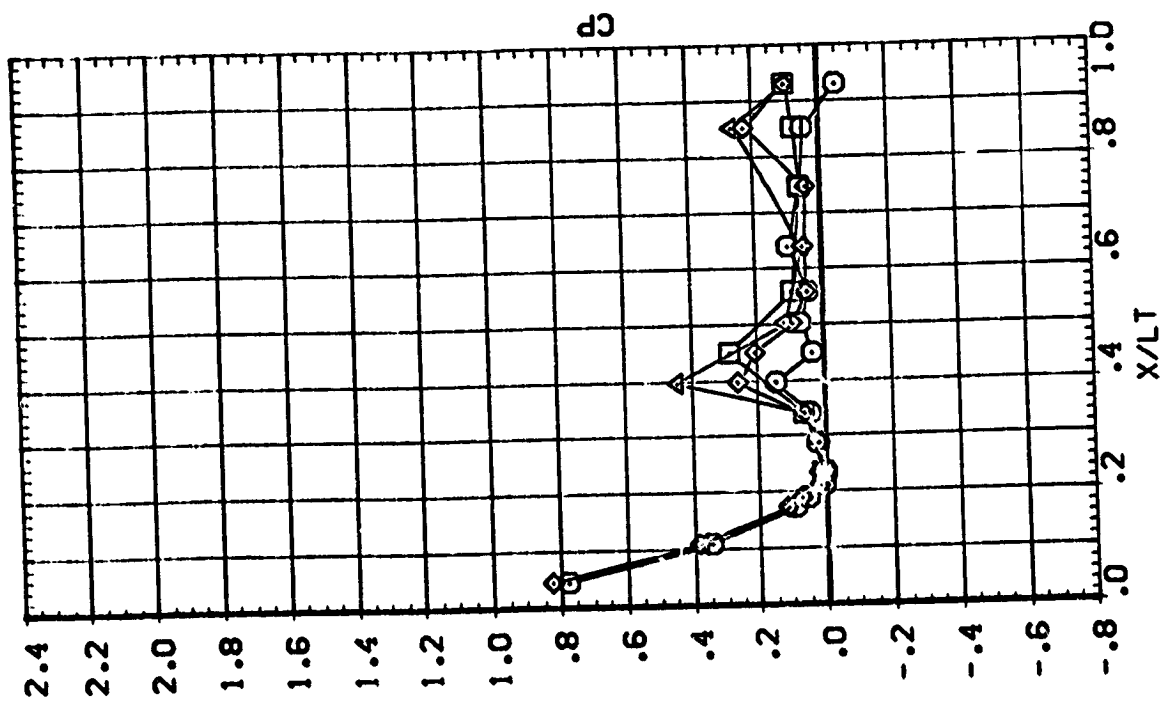
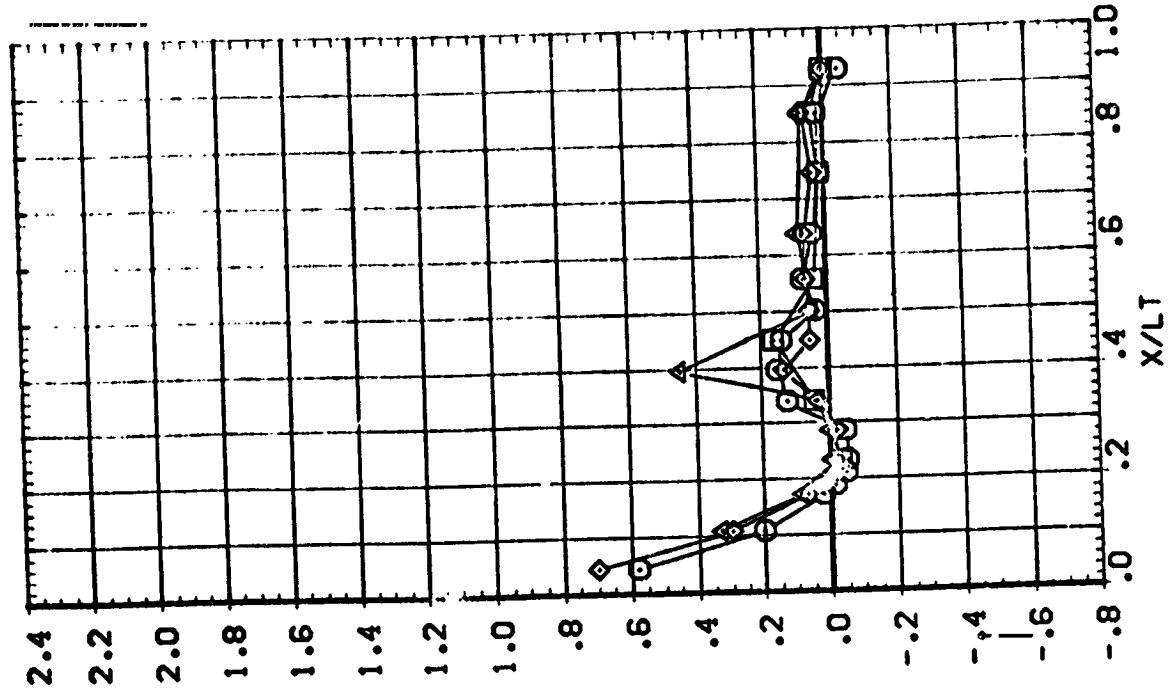


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

1.000
 1.111
 1.250
 1.429
 1.667
 2.000

1.00
 1.10
 1.20
 1.30
 1.40
 1.50
 1.60
 1.70
 1.80
 1.90
 2.00

LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



lb/ft²

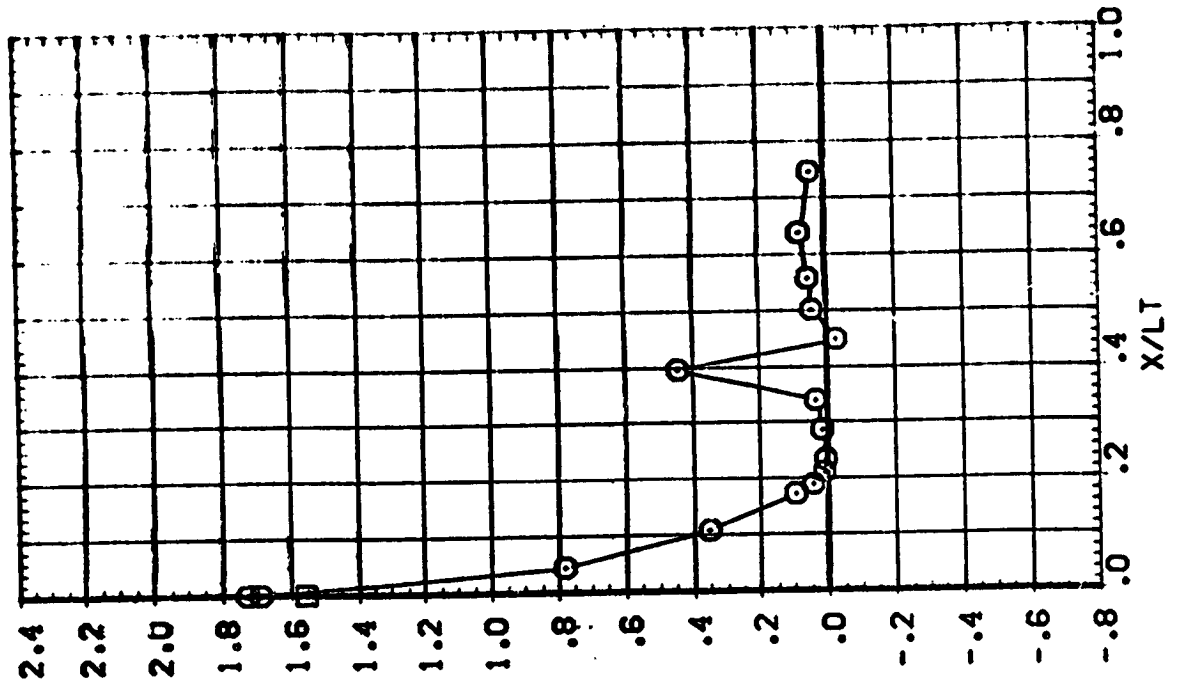
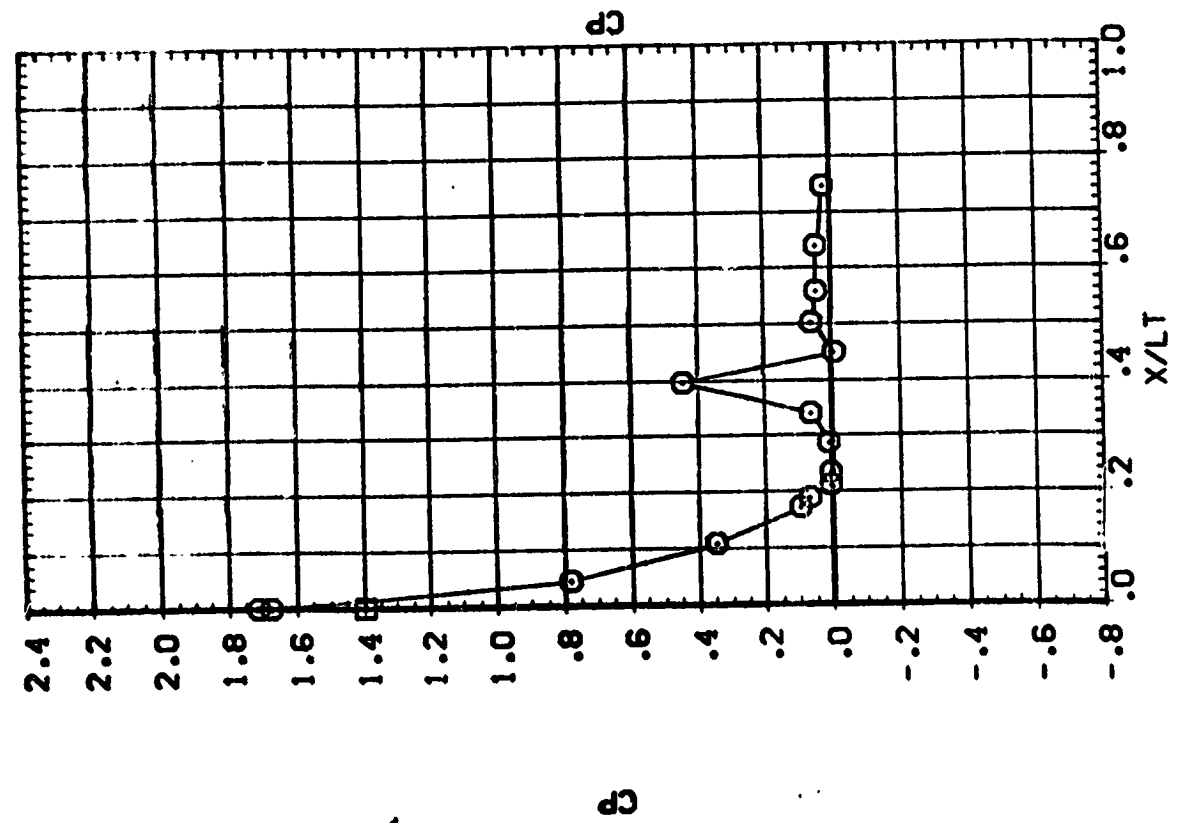
lb/ft²

AVES 87-707 :A9 C2A + S3 + '9 EXTERNAL TANK (RBNT02)

SYMBOL

PAI BEAT MACH
:80.000 -4.330 3.502
770.000 2.260

PARAMETRIC VALUES
ALPHAT -8.000 999.1C .500
RDOER .000 ELEVON .000
RDOFLR .000



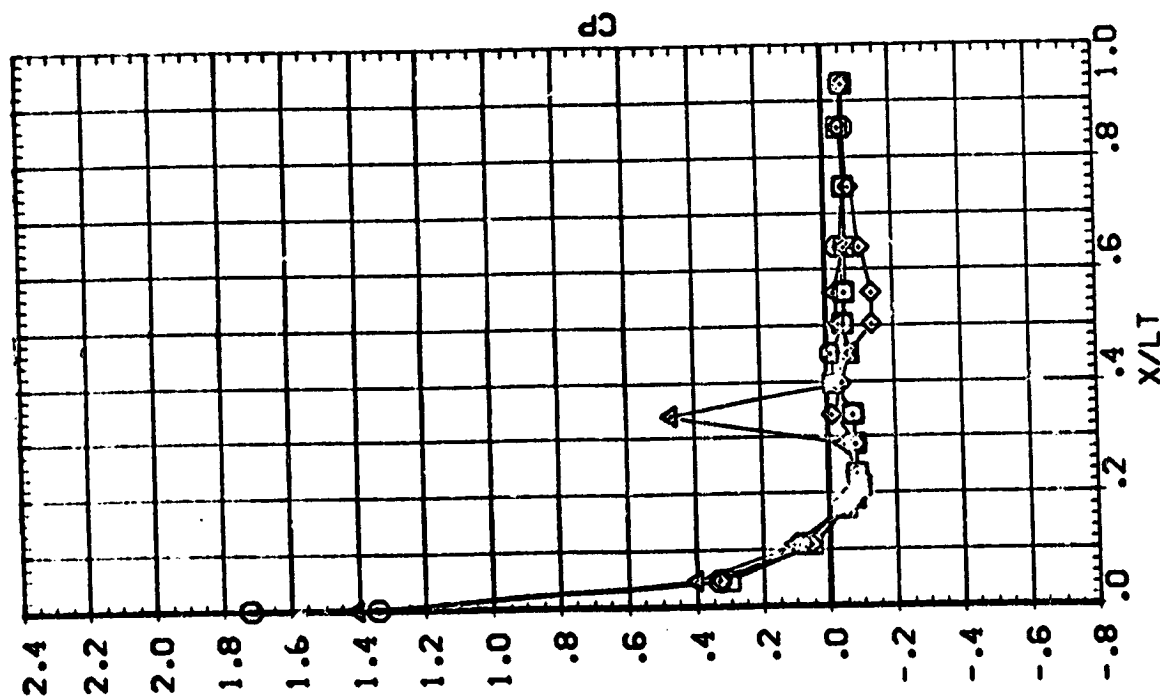
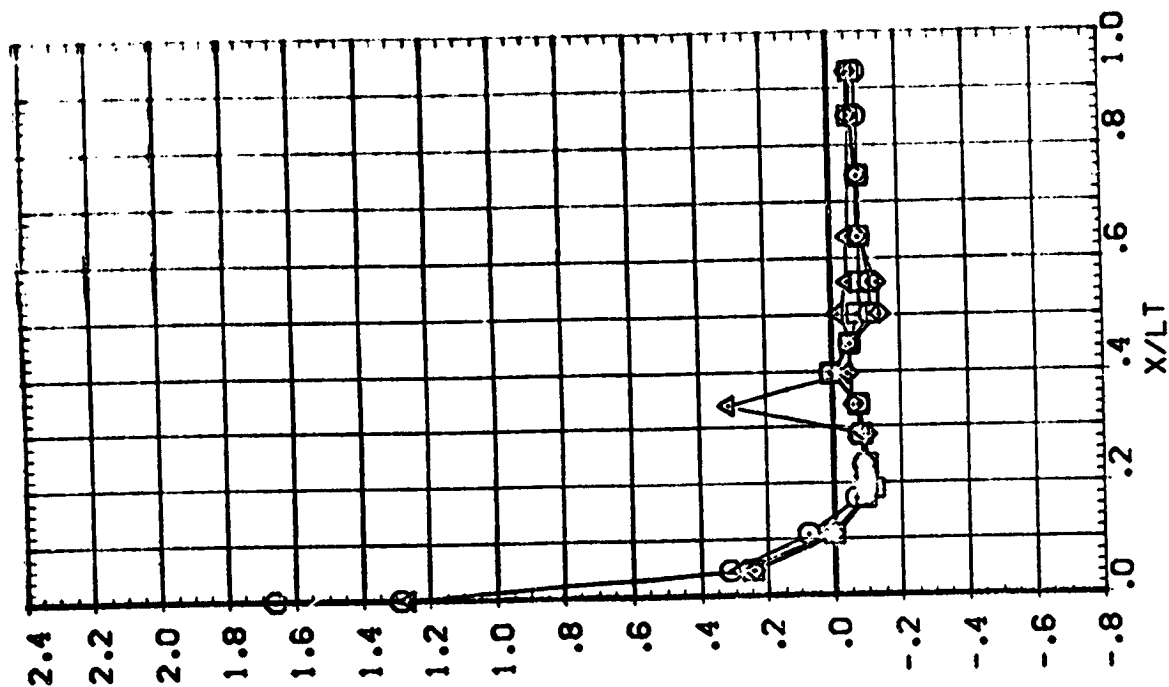
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AVES 89-1007 .AU 02A 1 93 4 13 EXTERNAL TANK

S-REF
 0
 1
 2

WASH 3.502
 4.480
 8.810

PARAMETRIC VALUES
 ALPHAT -8.000
 RUDDER 1.000
 RUOTLR 1.000



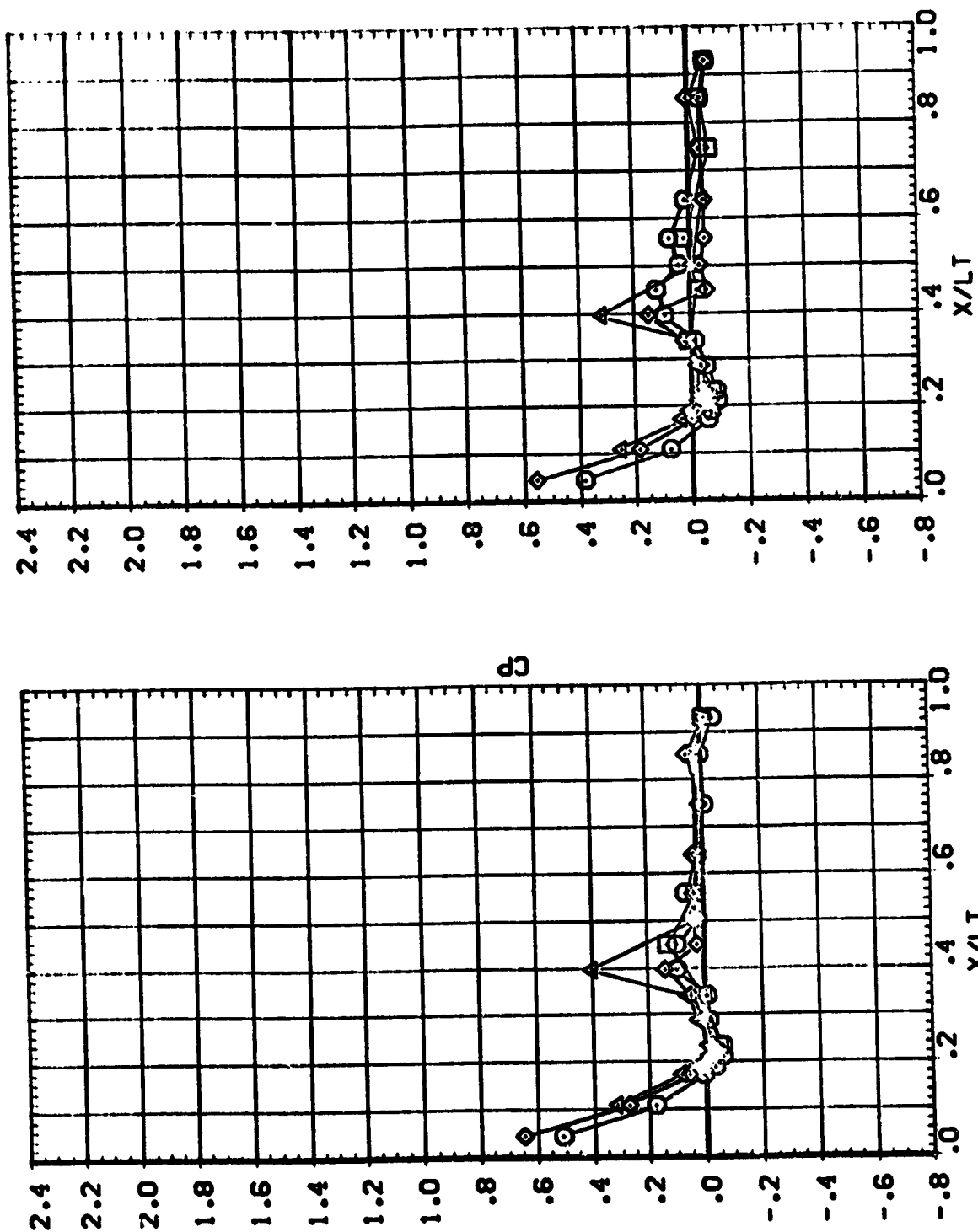
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

SYSC-
P1:
:20.000
:35.000
:50.000
:65.000

BETAT
4.480
8.910

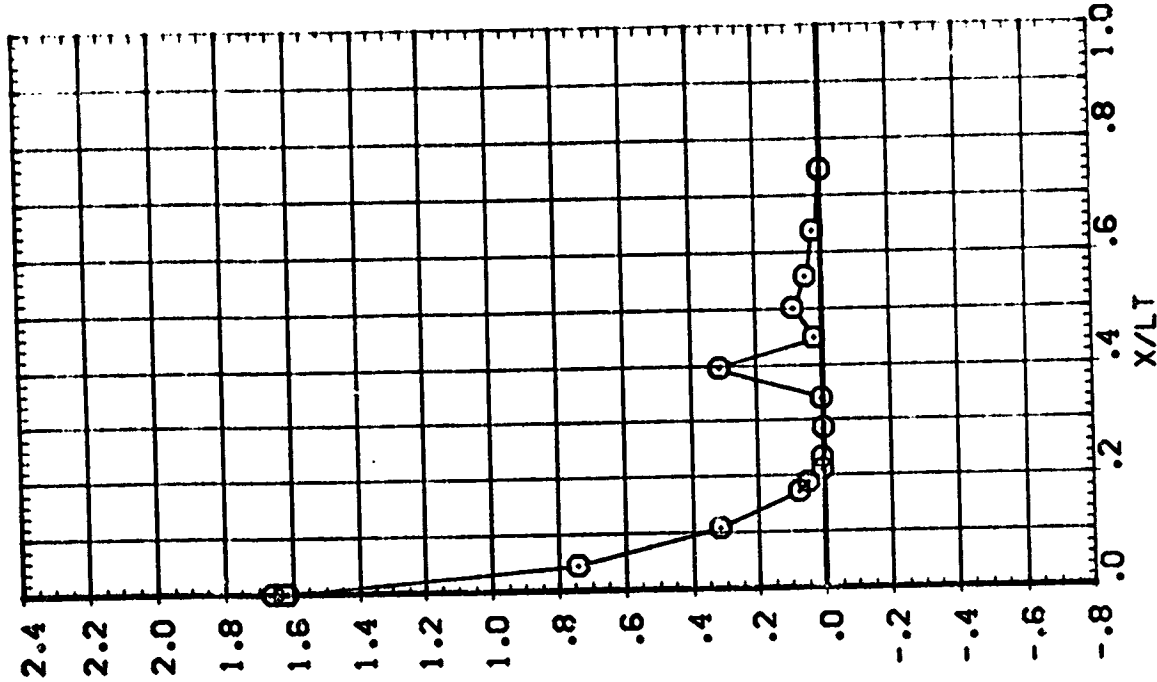
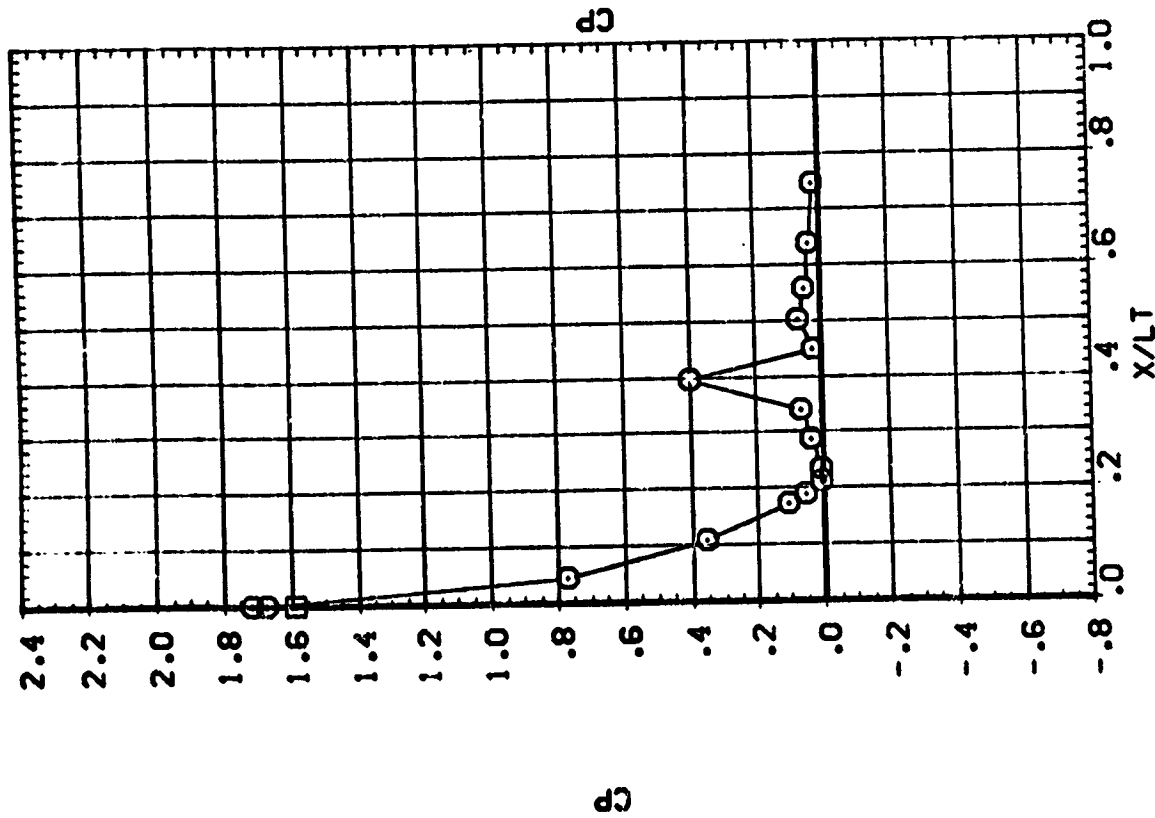
ALPHAT
RJDER
RJFLR

PARAMETRIC VALUES
-8.000 00000
.00000 00000
.00000 00000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

S.W. 100.000 270.000
 B.T. 4.480 8.910
 MACH 3.502



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

PARAMETRIC VALUES
 ALPHAT -8.000
 RUDER .000
 RUDER .000
 ELEVON .500
 ELEVON .000

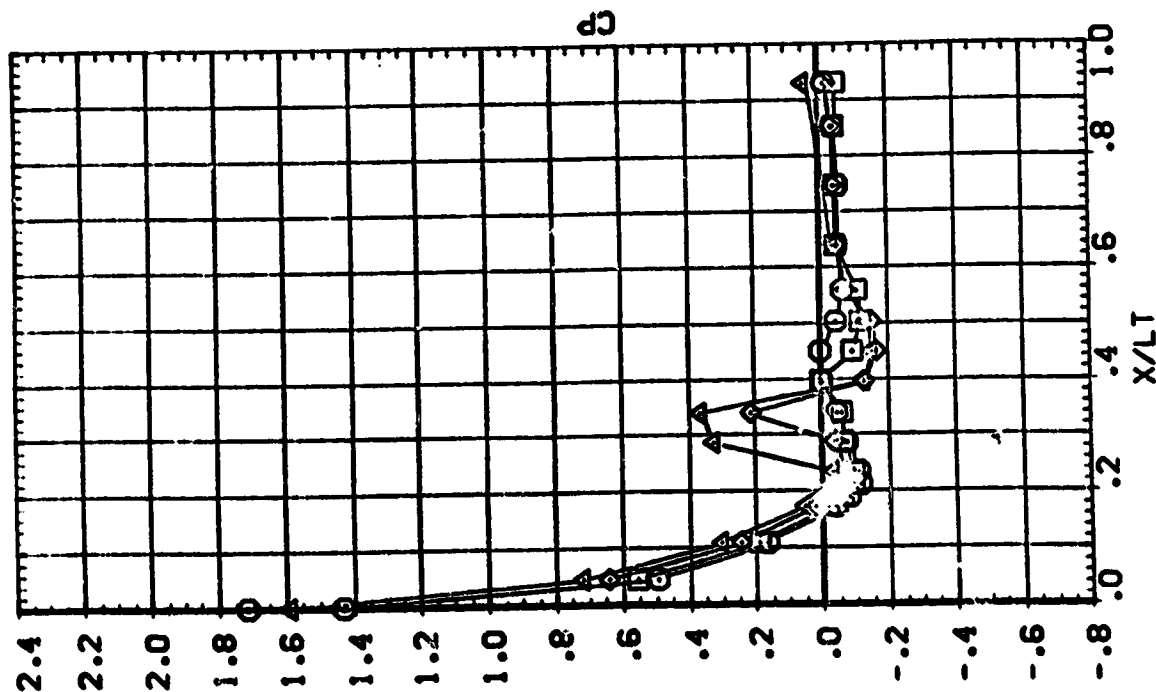
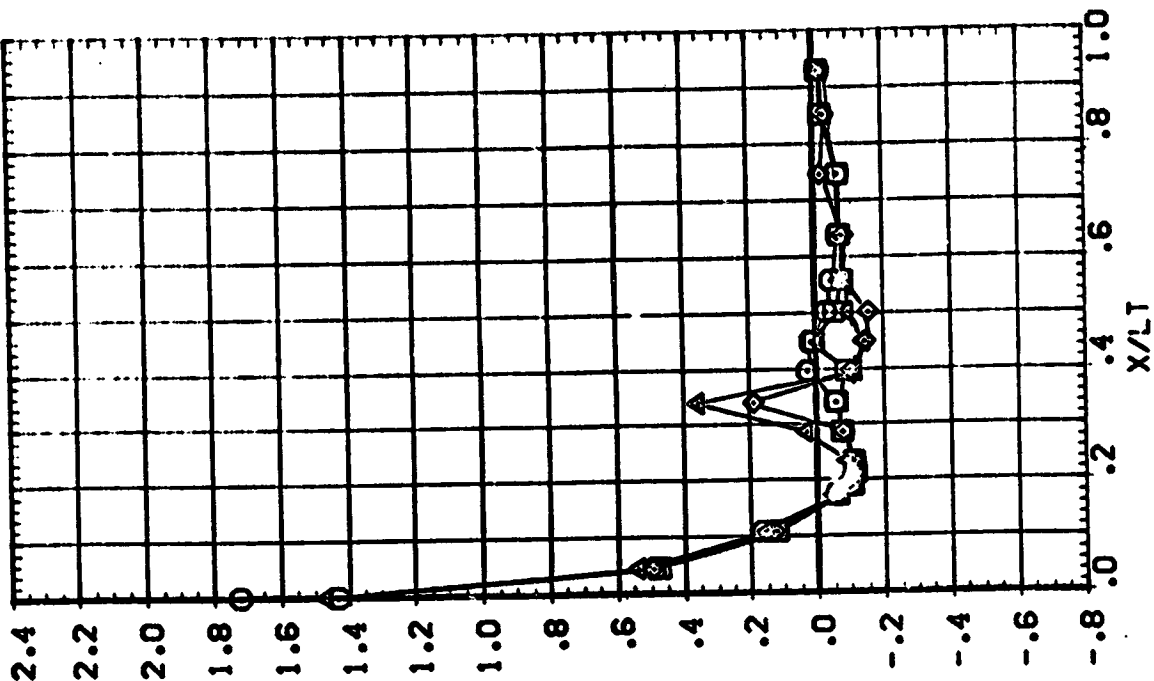
AVES 87-707 :A9 C2A - S3 - T9 EXTERNAL TANK (RBNT04)

SYNOPSIS

AVES 87-707 :A9 C2A - S3 - T9 EXTERNAL TANK (RBNT04)

PARAMETRIC VALUES

ALPHAAT -4.000 ORBINC .500
 RUDDER .000 ELEVON .000
 RUFLR .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

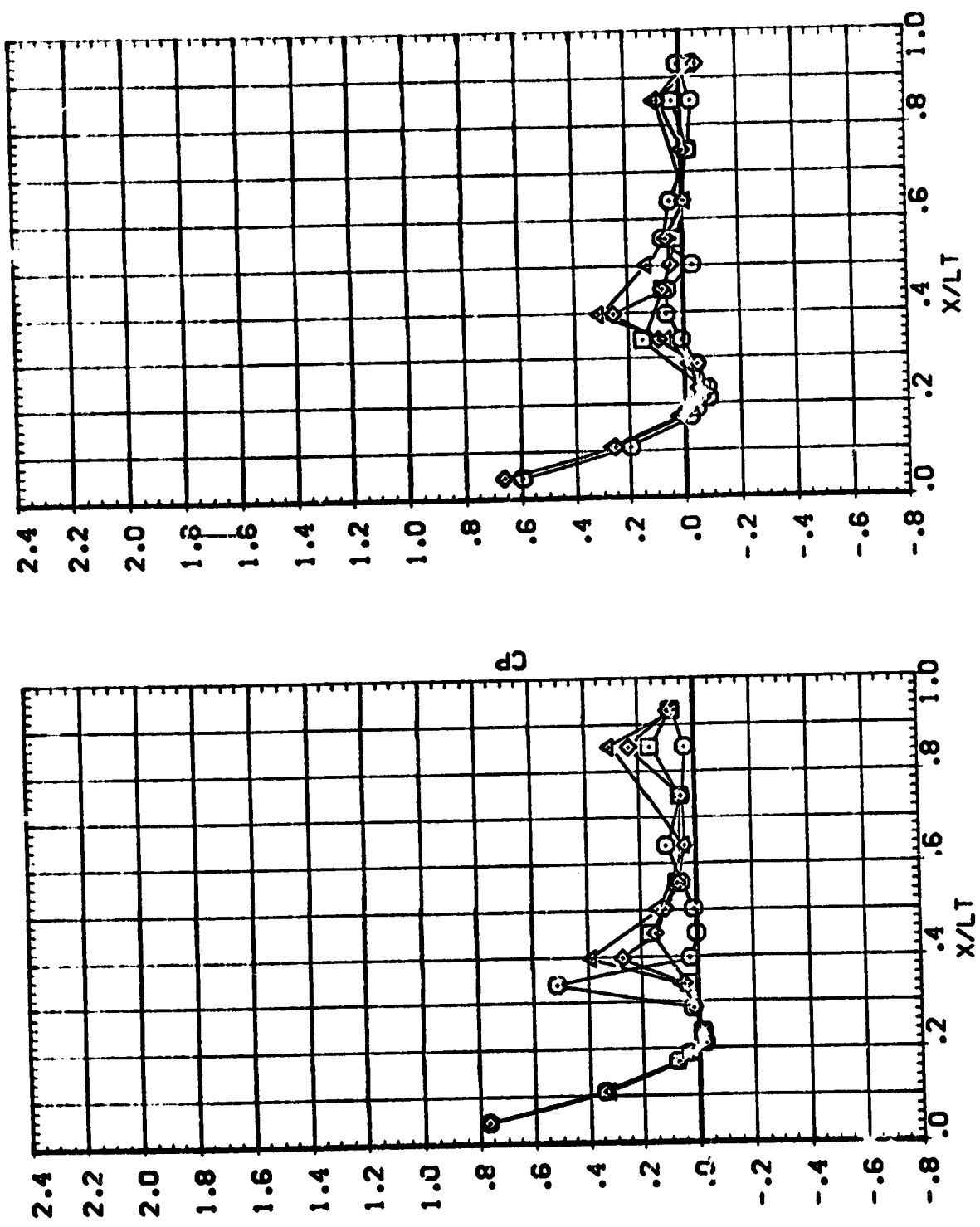
SYMBOL
 ○
 □
 ◇
 △

PAI: 170.000
 135.000
 150.000
 165.000

BETA: -4.190
 2.180

MACH: 2.498

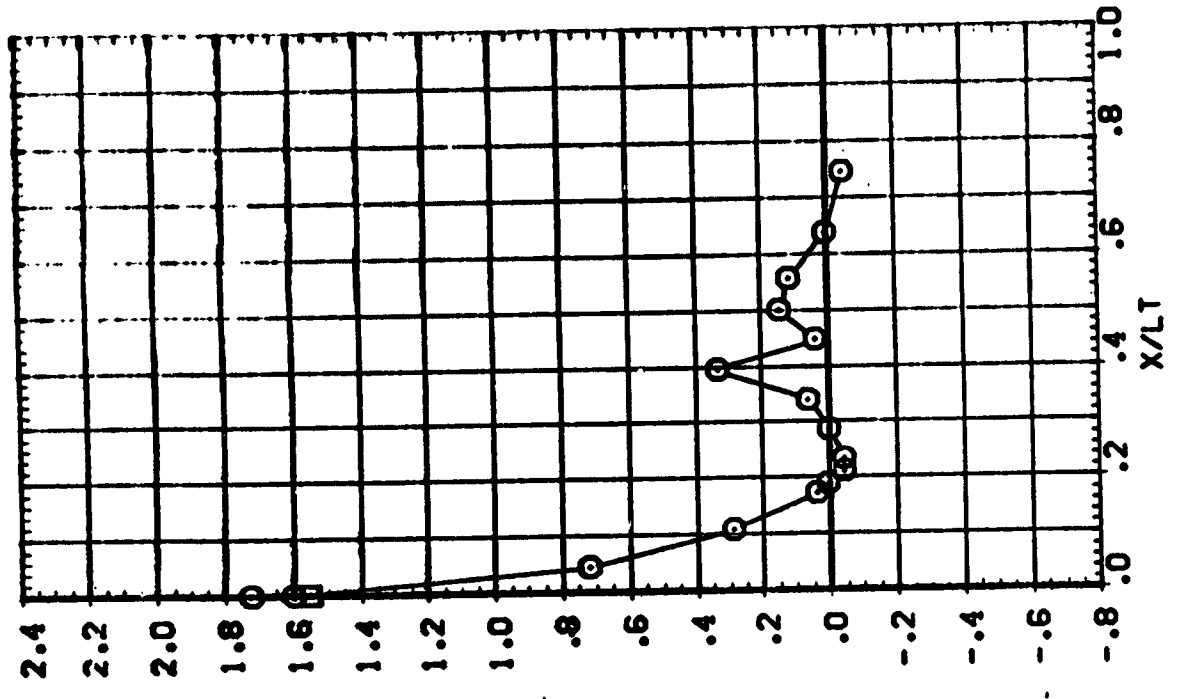
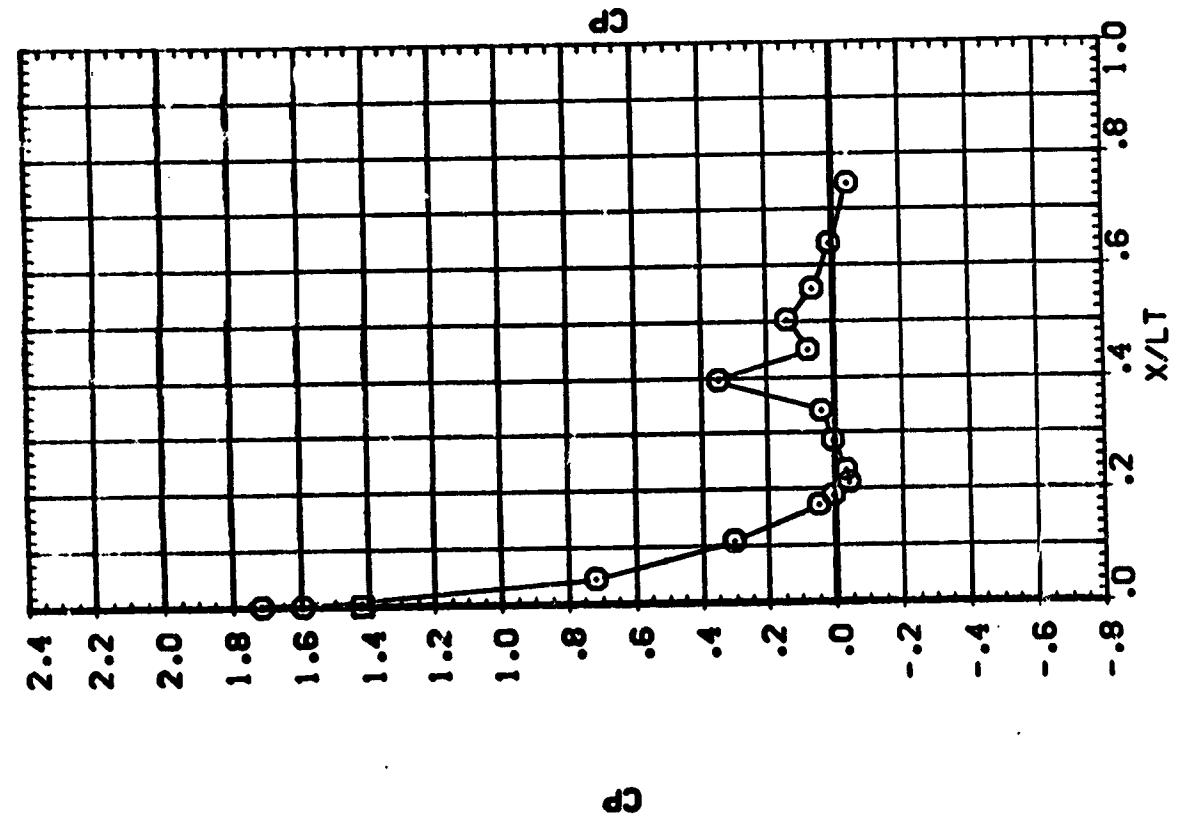
PARAMETRIC VALUES
 ALPHA: -4.000
 RUDER .000
 RUDER .000
 ORBITAL ELEVON .000
 .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

SPEC. P-1 BETAT MACH
 :60.000 -4.190 2.498
 770.000 2.180

PARAMETRIC VALUES
 ALPHAT -4.000 SHBIN 0.000
 RUDDER 0.000 ELEVON 0.000
 RUOTLR 0.000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

[RBN104]

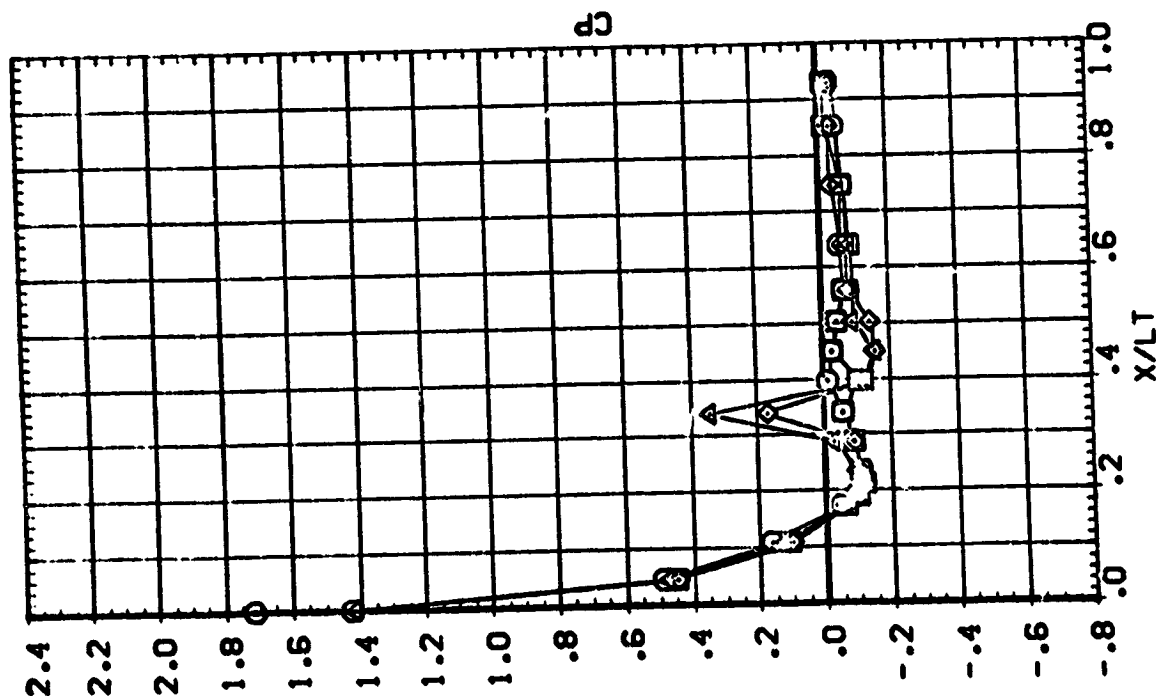
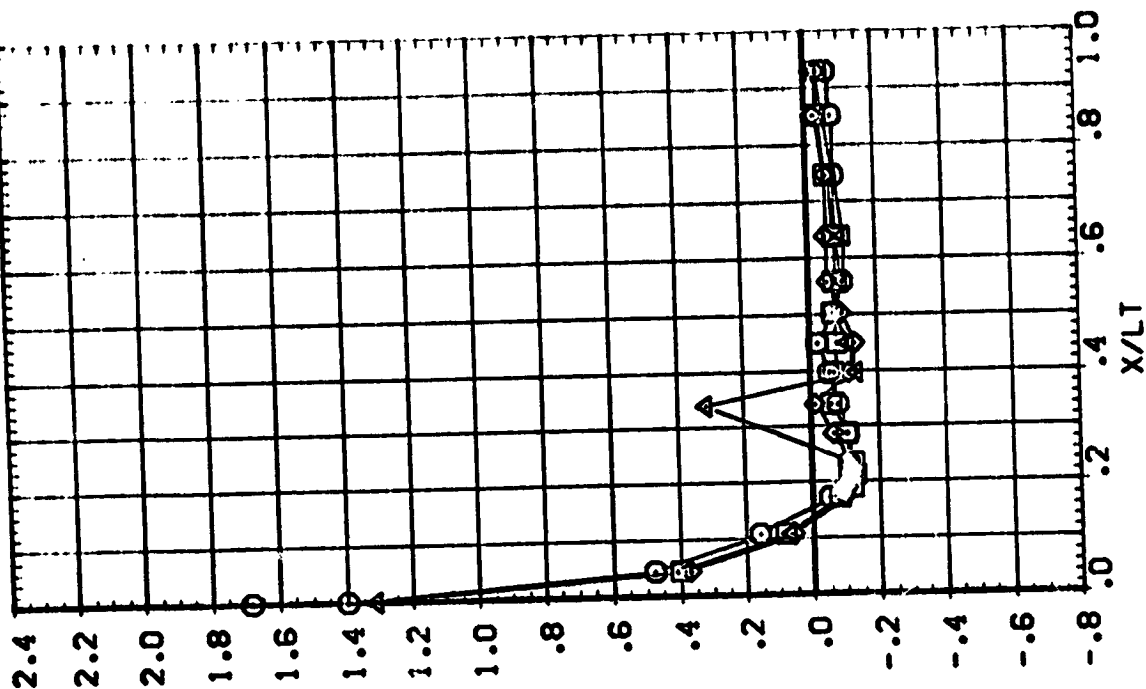
AVES 87-707 :A9 C2A + S3 + 19 EXTERNAL TANK

SYNCH
○ ◇ △

PA: .000
30.000
60.000
90.000

BETAT MACH
4.300 2.498
9.550

PARAMETRIC VALUES
ALPHA: -4.000
RUDDER .000
RUOFLR .000
CROSSING
ELEVATION
.000
.000
.000



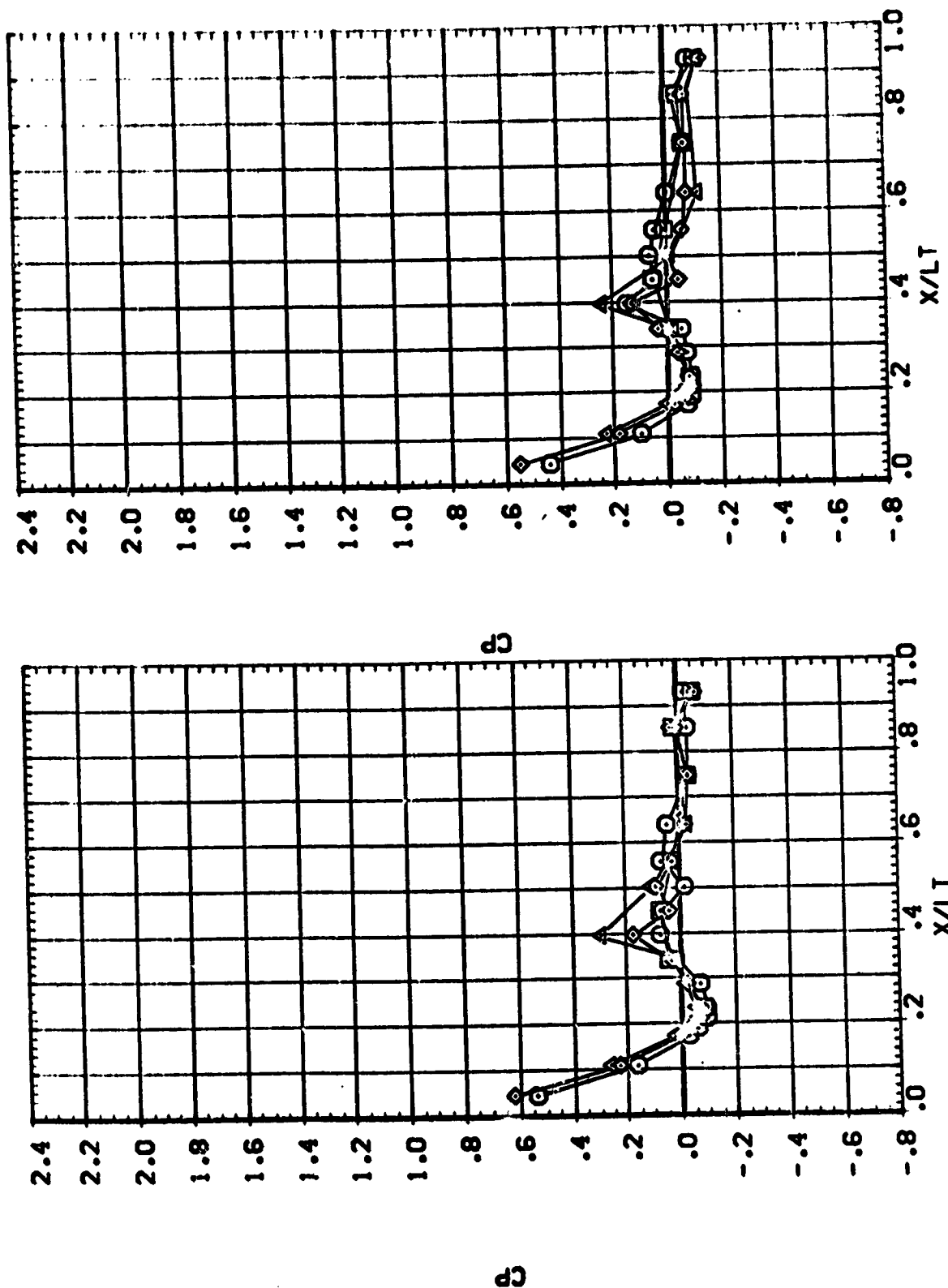
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

SWBC
O
O
O
O
O

20.000
35.000
50.000
65.000

BEAT 4.300
MAC 8.550
2.498

PARAMETRIC VALUES
ALPHAAT -4.000
RUDDER .000
RUOFLR .000
SBBINC 500
ELEVON 1000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

(RBNT04)

AVES 87-707 :A9 32A - S3 - '9 EXTERNAL TANK

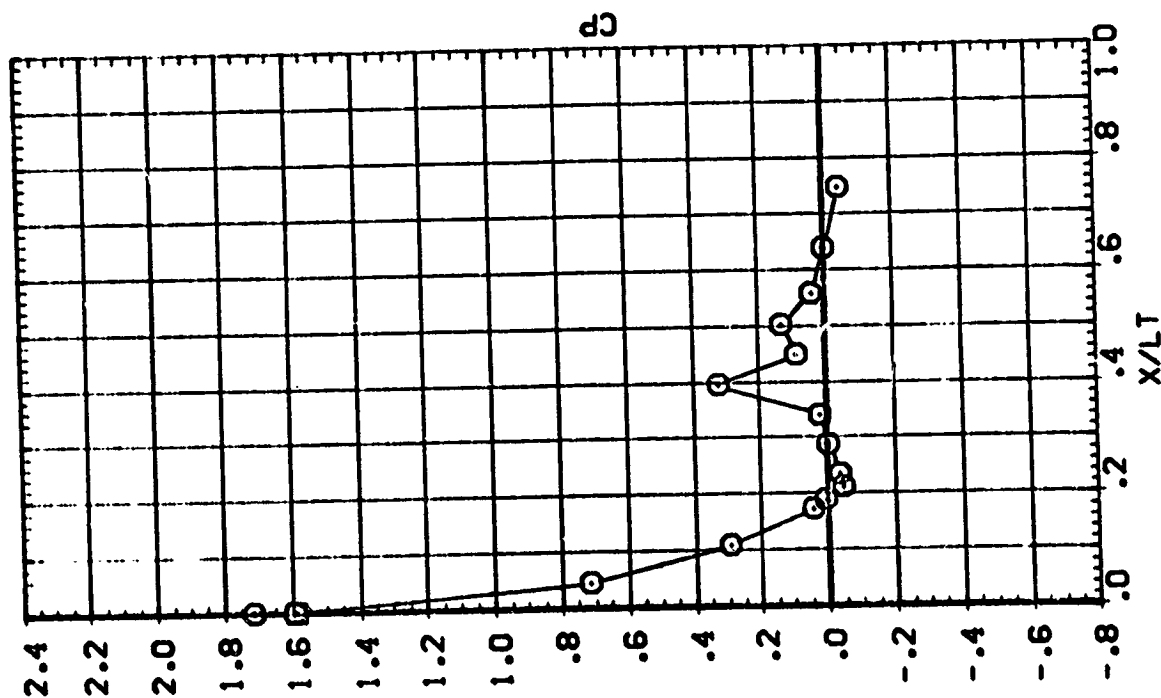
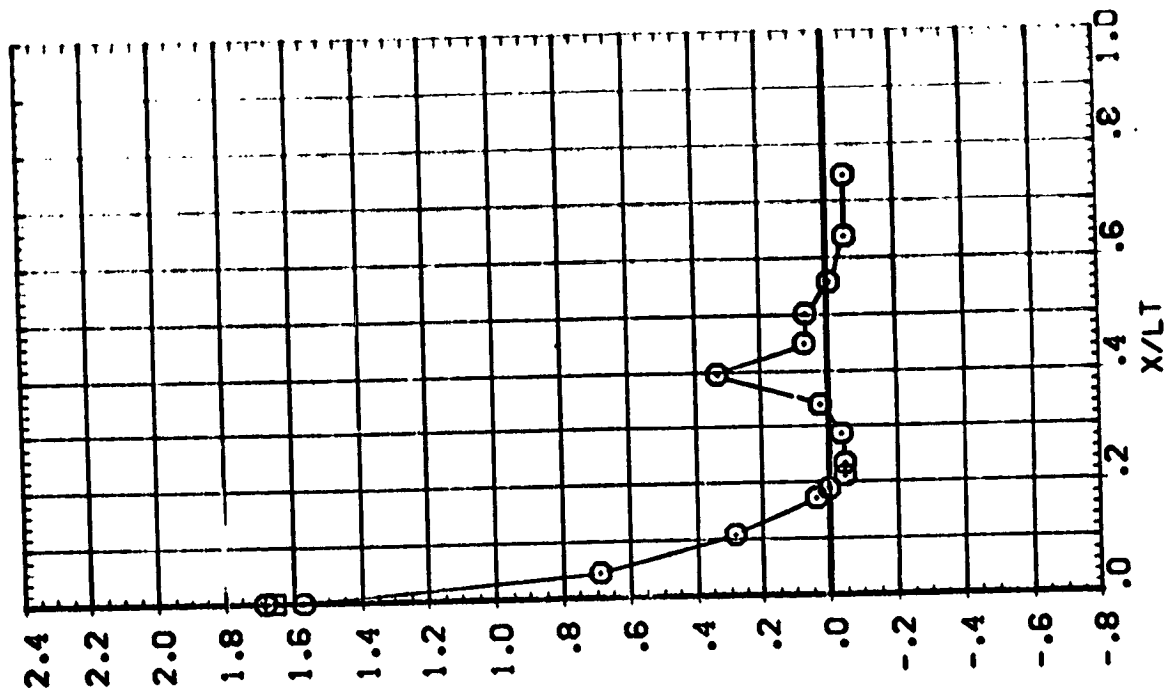
SYSC
()

BEAT 4.300
270.000 8.550

WACH 2.498

PARAMETRIC VALUES
ALPHAT -4.000 599.14
RUDDER .000 0.000
RUDFLR .000

.500
.500



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

CRBNTC42

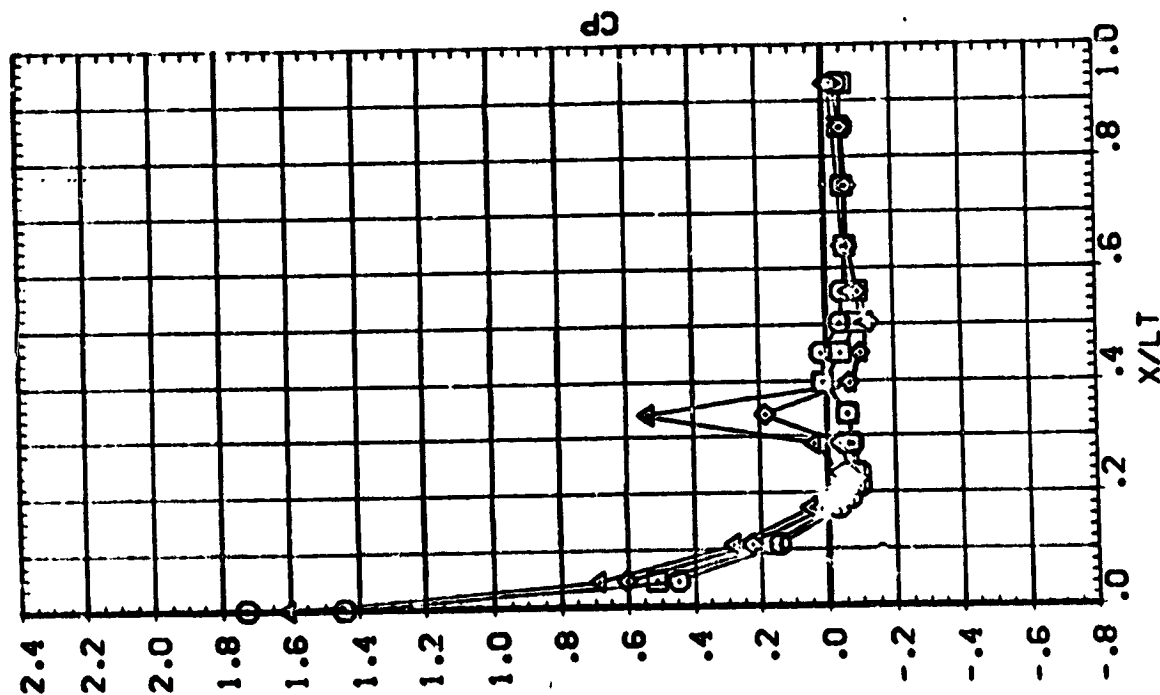
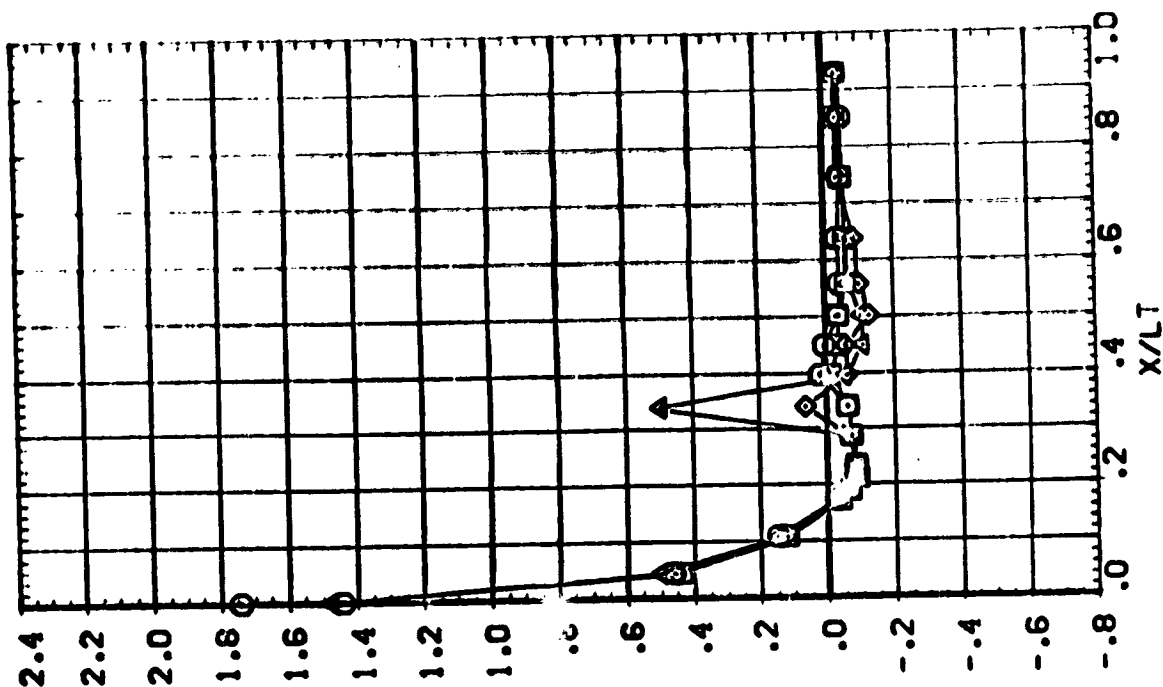
AVES 87-7C7 :A9 C2A + S3 + T9 EXTERNAL TANK

500
1000

PARMETER VALUES
ALPHA: -4.000 390.0
RUCER: 1.000 55.0
RUCFLR: 1.000

BETA: 2.260 2.999
WACH: 2.210

SYNCH
1.000
30.000
60.000
90.000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

(RBN 04)

ISS 87-707 18 025 - 53 - 10 EXTERNAL TANK

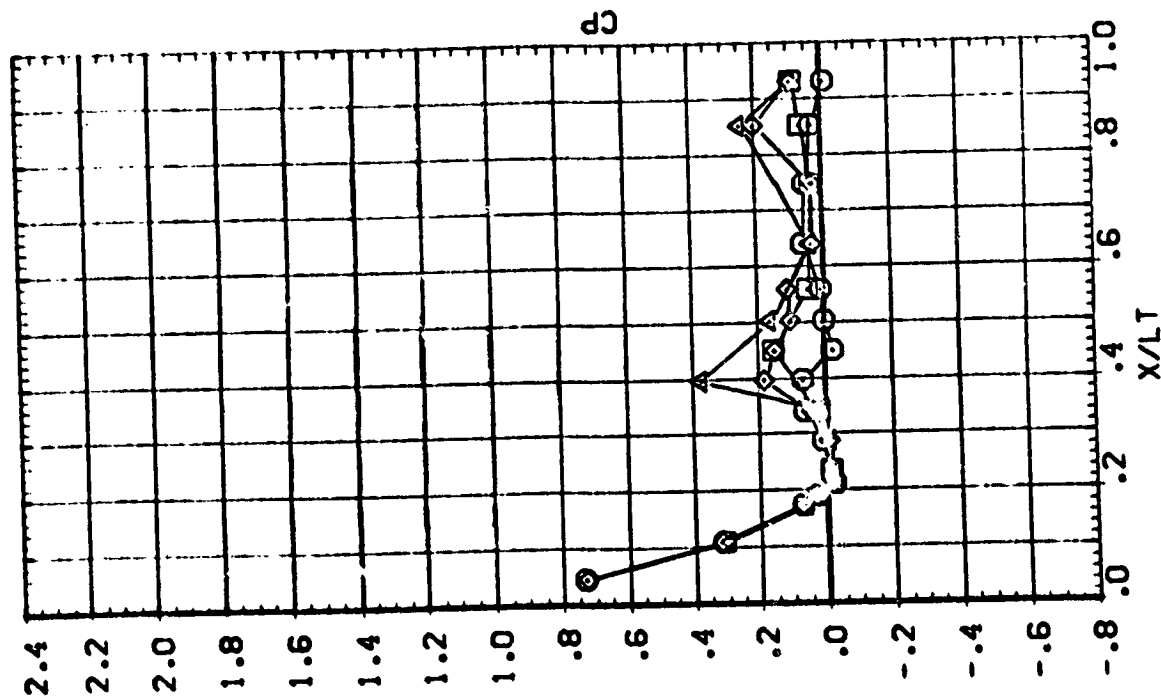
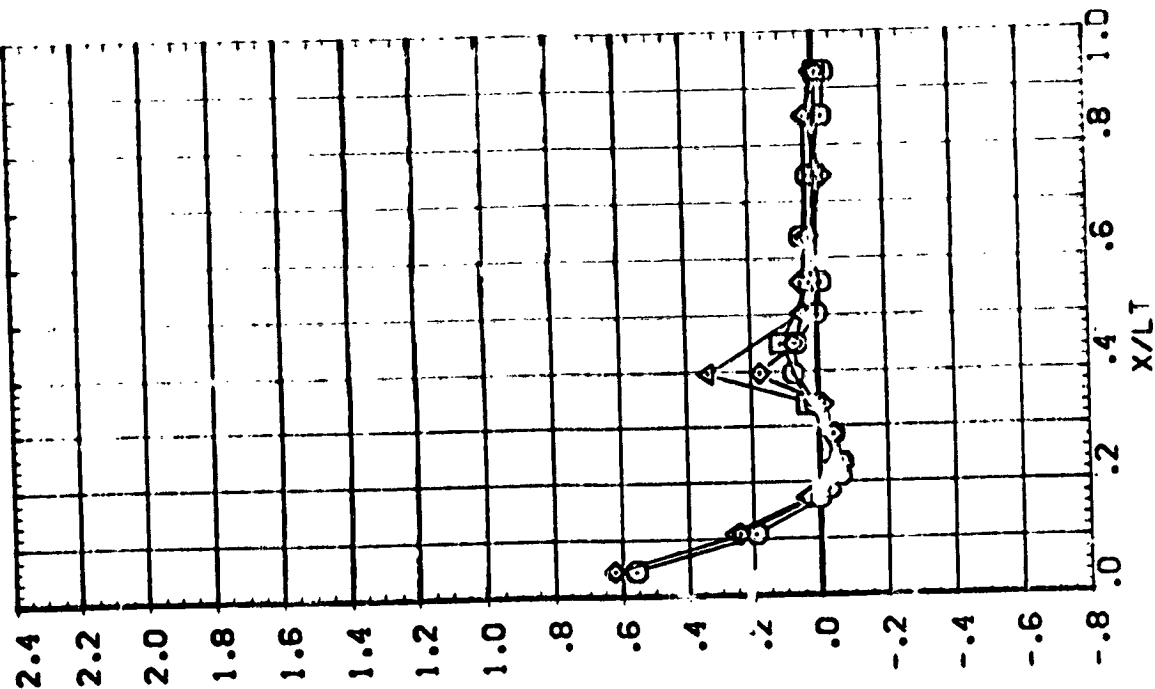
S.W.C.
 170.000
 135.000
 150.000
 165.000

BETA
 -4.263
 2.210

WACH

ALPHA
 RUDER
 RUDLR

0.000
 0.000
 0.000
 0.000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

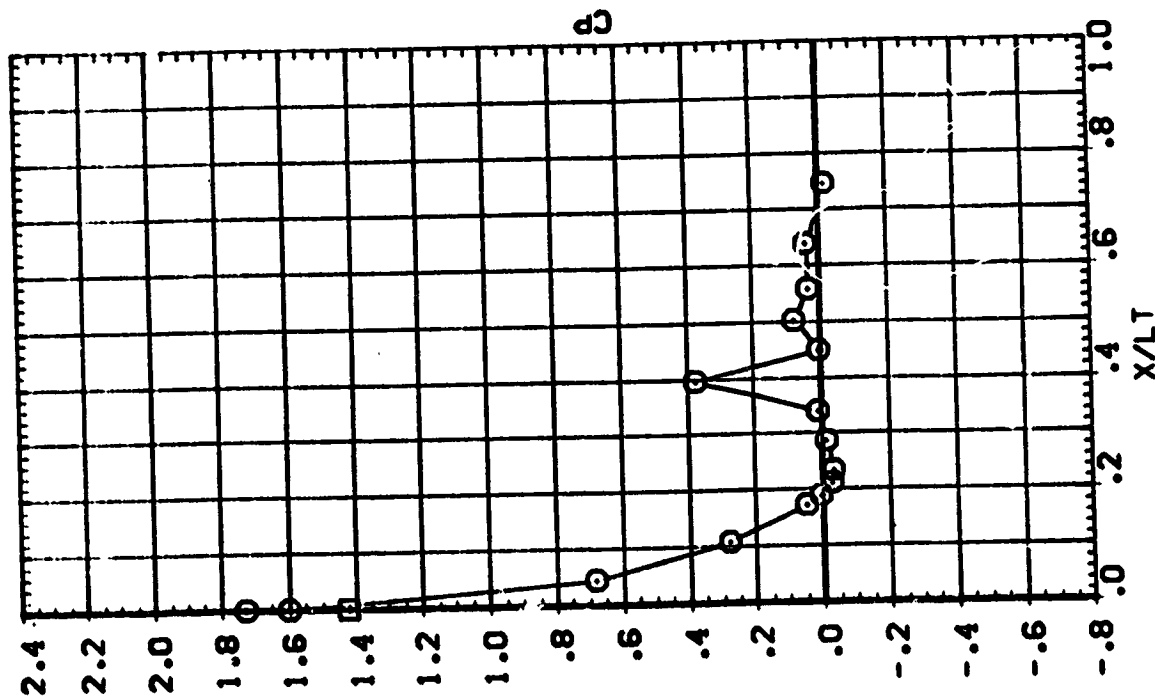
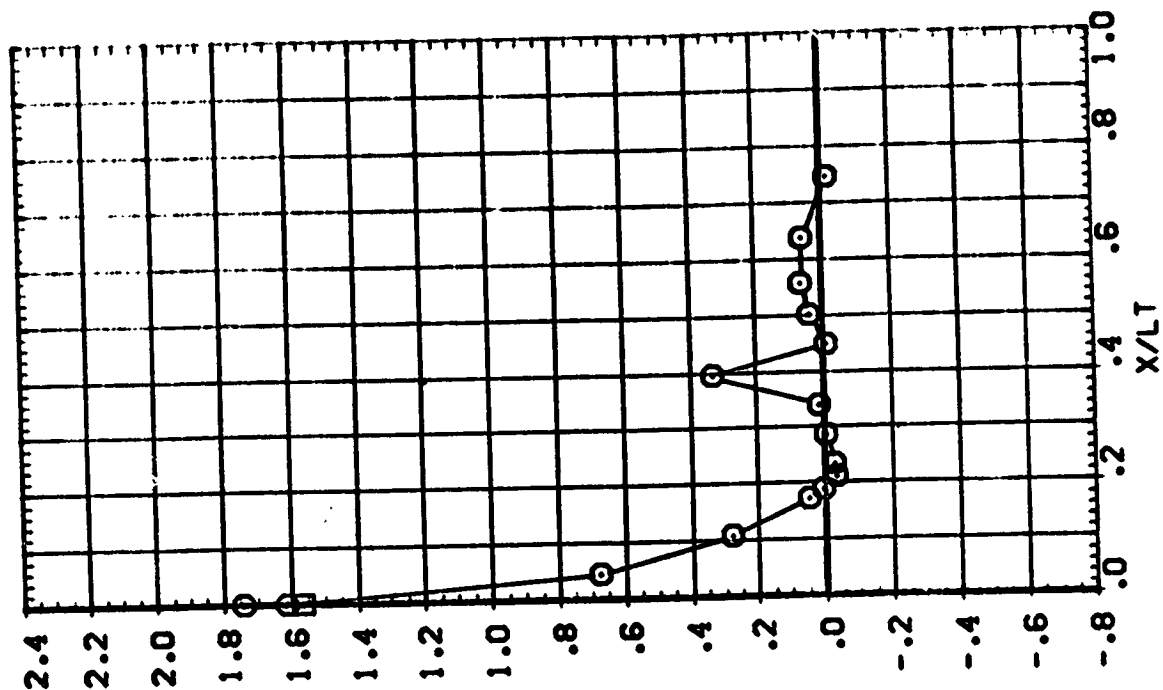
==

AVES 87-707 1A9 02A - S3 - 19 EXTERNAL TANK (RBNT04)

SPEC

MAJ: 180.000 770.000
 BETA: -4.260 2.210
 MACH: 2.999

PARAMETER VALUES
 ALPHAT -4.000 599.0
 RUJDER .000 ELEVON .500
 RUOFLR .000

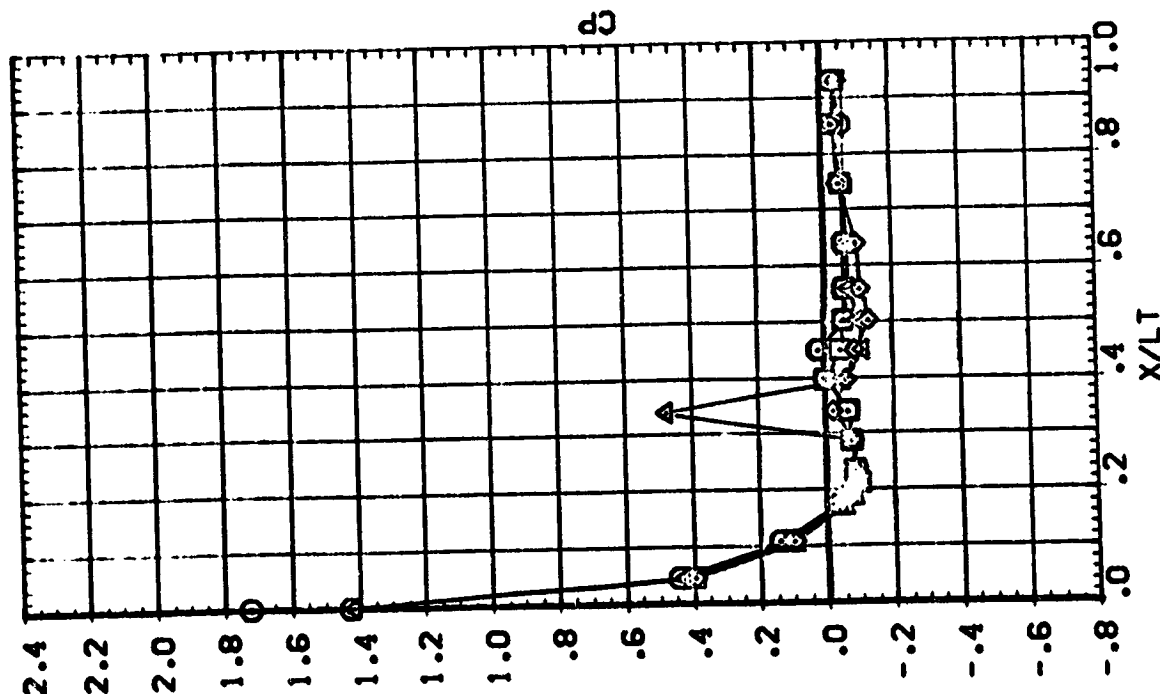
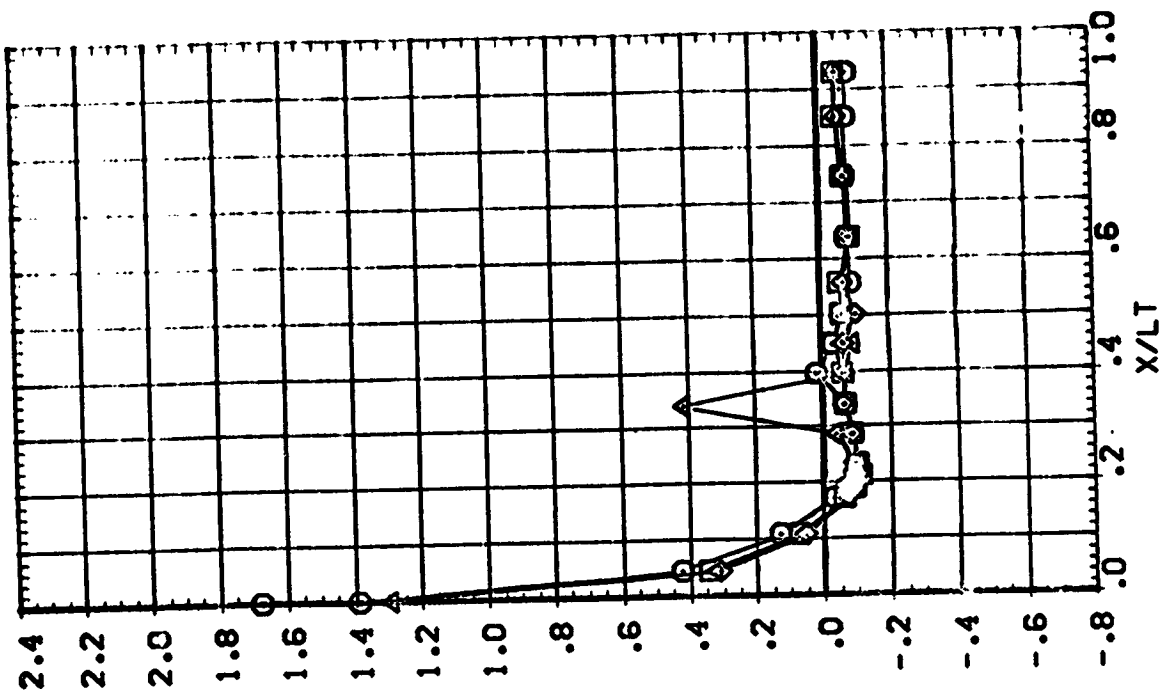


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

SYZ:
1.000
30.000
60.000
90.000

SE "A" MACH
4.380 2.999
8.710

PARAMETRIC VALUES
ALPHAT -4.000 99.000
RLODER 1.000 ELEVON
RLOFLR 1.000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

(R3N104)

AVES 87-707 1A9 32A - S3 - 18 EXTERNAL TANK

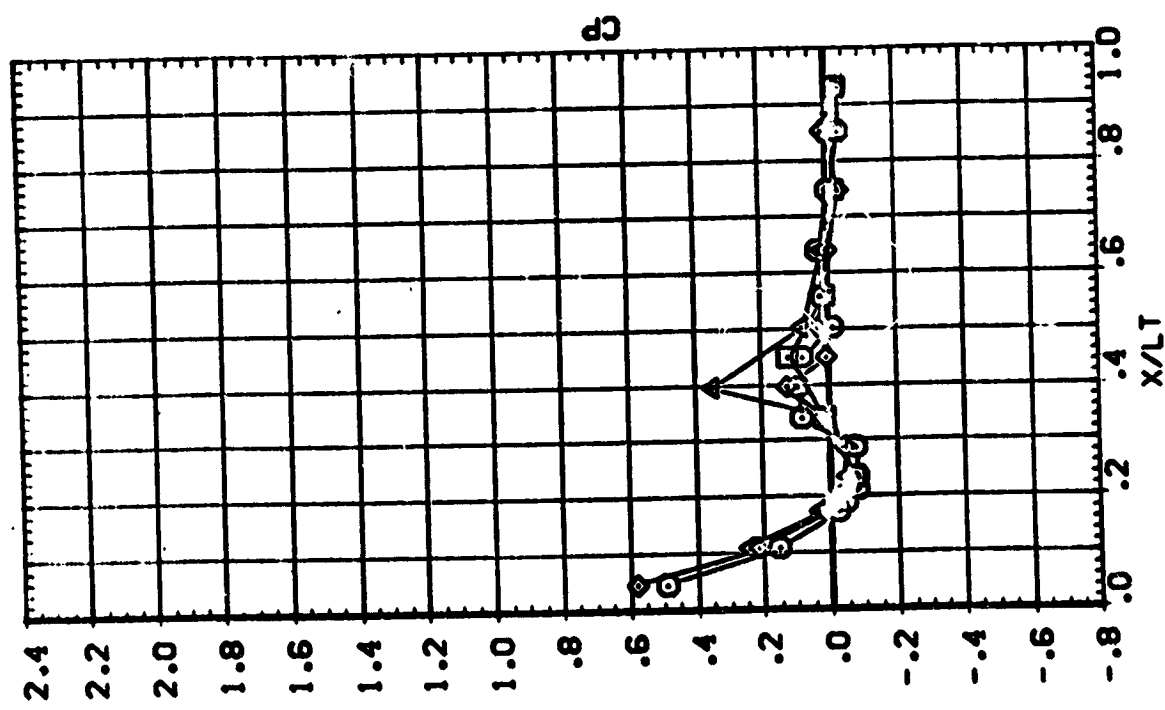
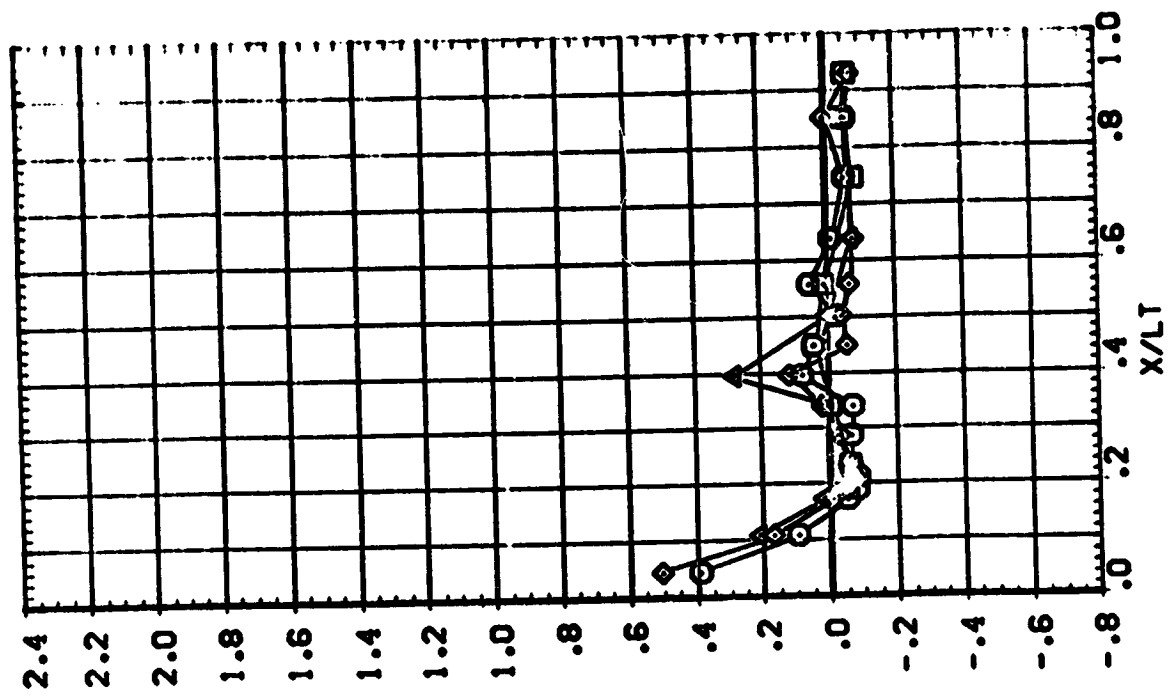
SYSC
O
□
◇
△

PM: 125.000
135.000
150.000
165.000

BETAT 4.380
8.710

PACH 2.999

PARAMETRIC VALUES
ALPHA: -4.000
RUDER .000
RDFLR .000
DBINC .500
ELEVON .500



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

(RBN104)

AVES 87-707 1A9 C2A - S3 + T9 EXTERNAL TANK

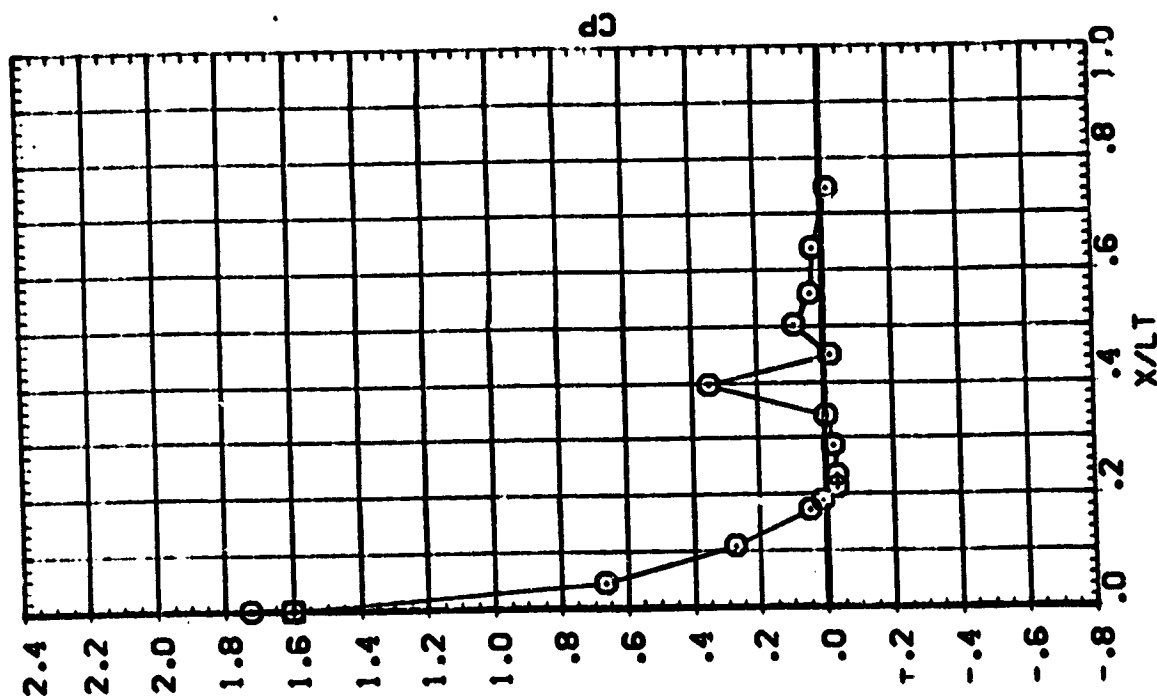
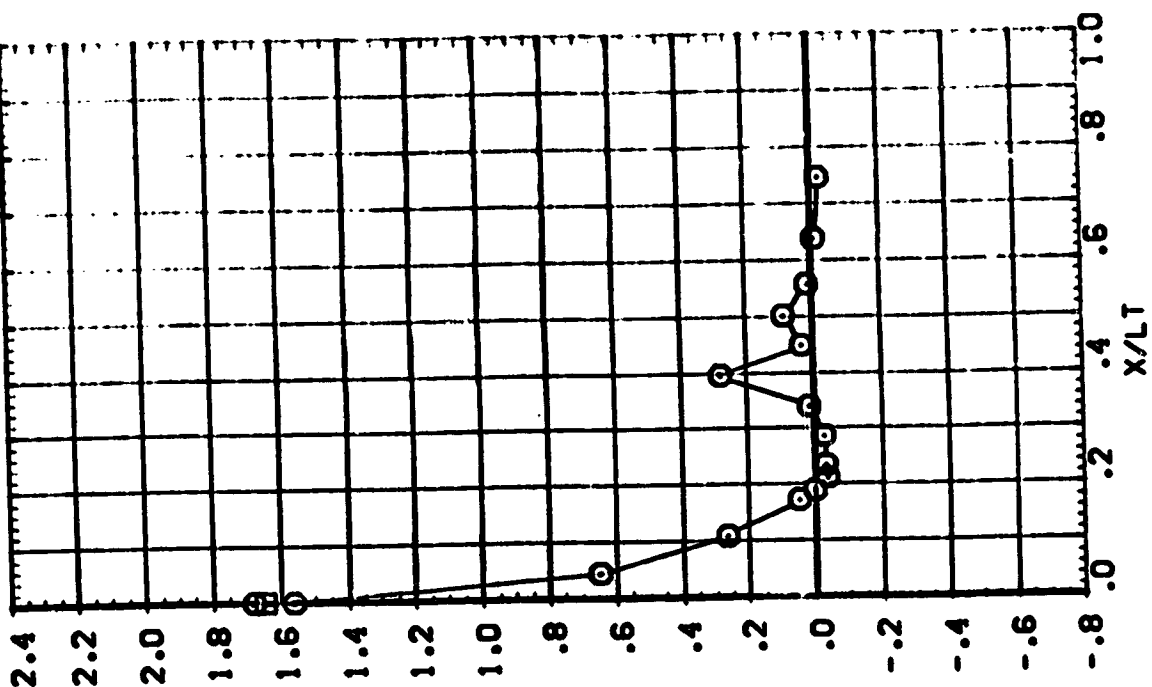
S.W.C. 180.000
 770.000
 8.710

BEAT 4.380

PACH 2.959

PARAMETRIC VALUES
 ALPHA' -4.000
 RUDDER .000
 RLOFLR .000

.000
 .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

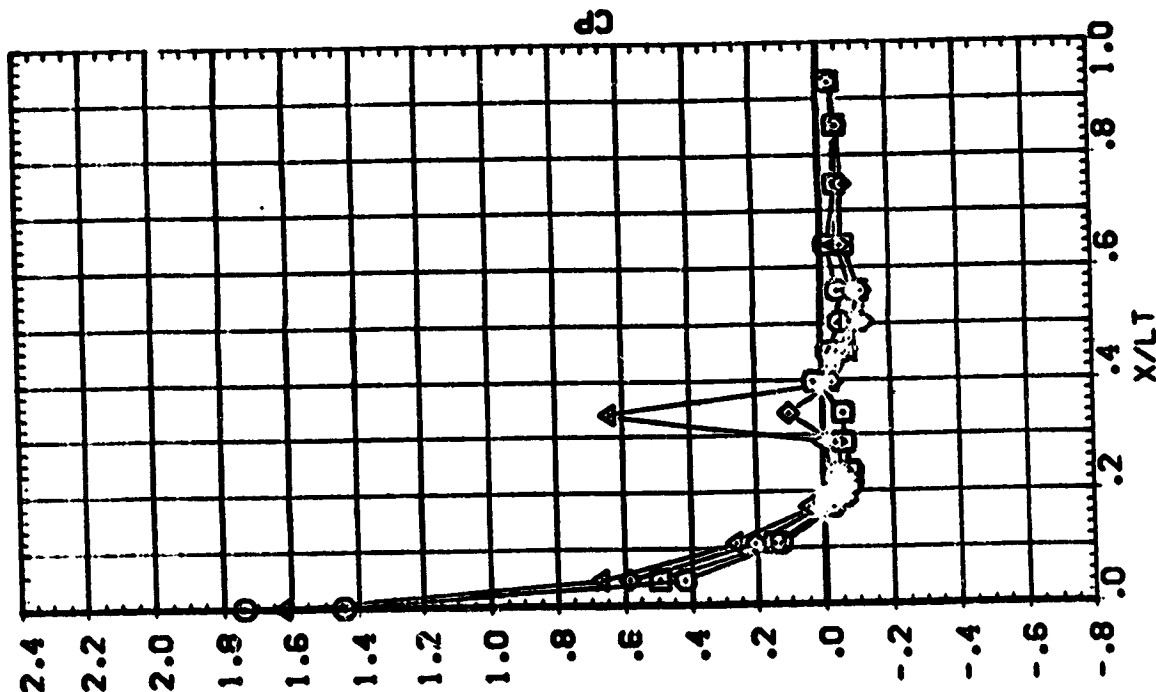
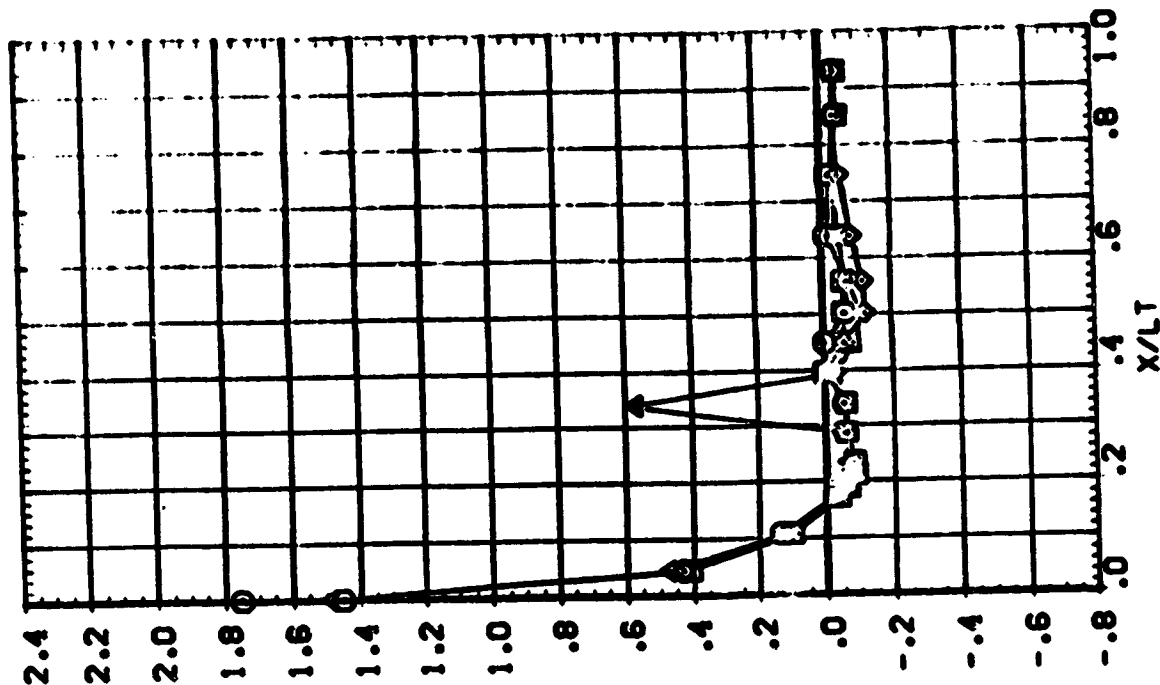
AVES 87-707 :A9 32A - S3 - '9 EXTERNAL TANK (RBNT04)

SYMBOL
○ ○ ○ △

PA: .000
30.000
60.000
90.000

BEAT PAC-
-4.340 3.502
2.260

PARAMETER VALUES
ALPHA: -1.000 375.00
RUDER .000 0.00
RUDLR .000 0.00



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

(RBNT04)

AVES 87-707 :A9 C2A - S3 - 9 EXTERNAL TANK

SYMBOL
○
◇
△

PAI
120.000
135.000
150.000
165.000

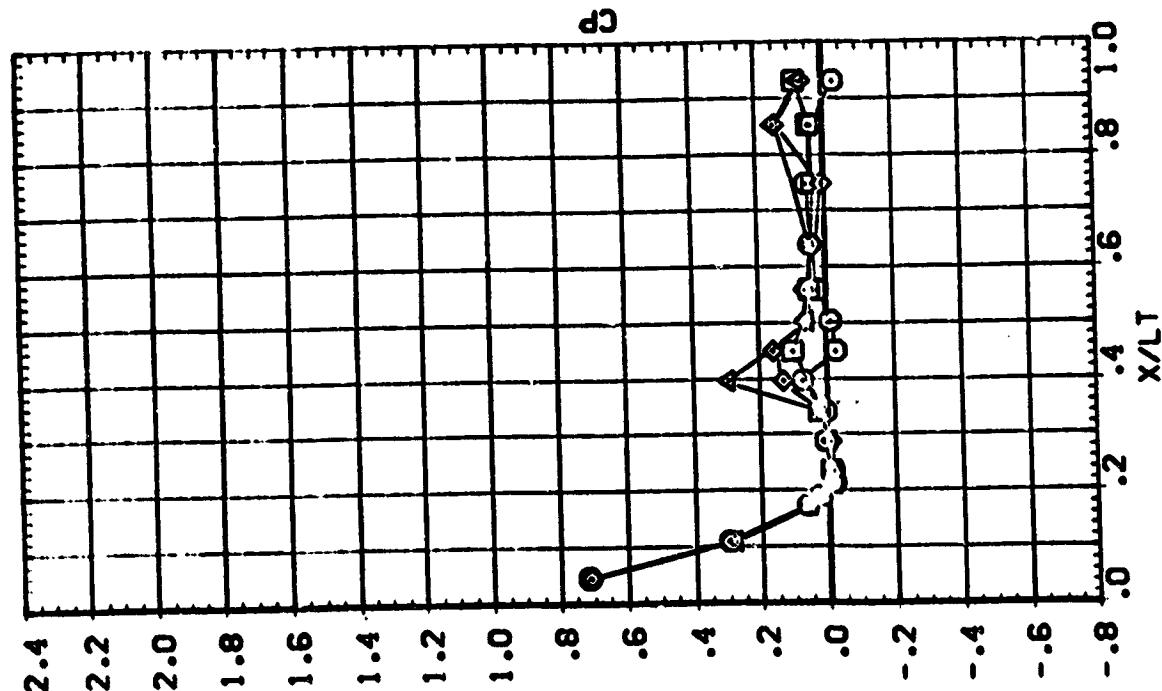
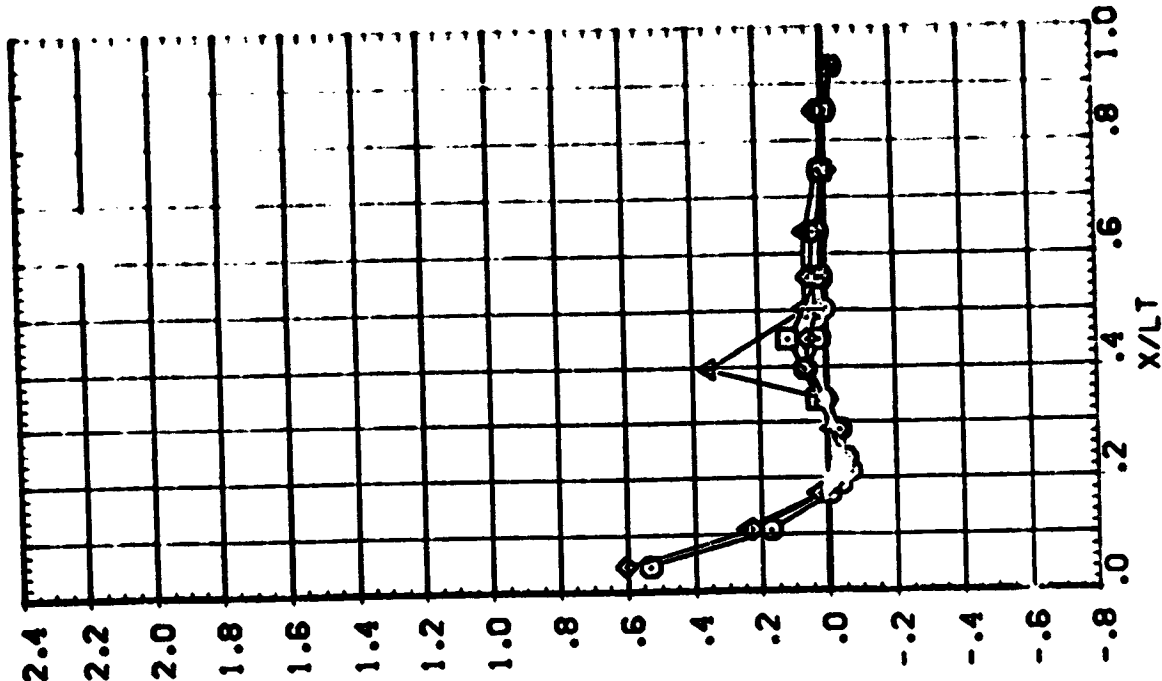
BETAT MACH
-4.340 3.502
2.760

PARAMETRIC VALUES

ALPHAT
RLODER
RLOFLR

-4.000
.000
.000

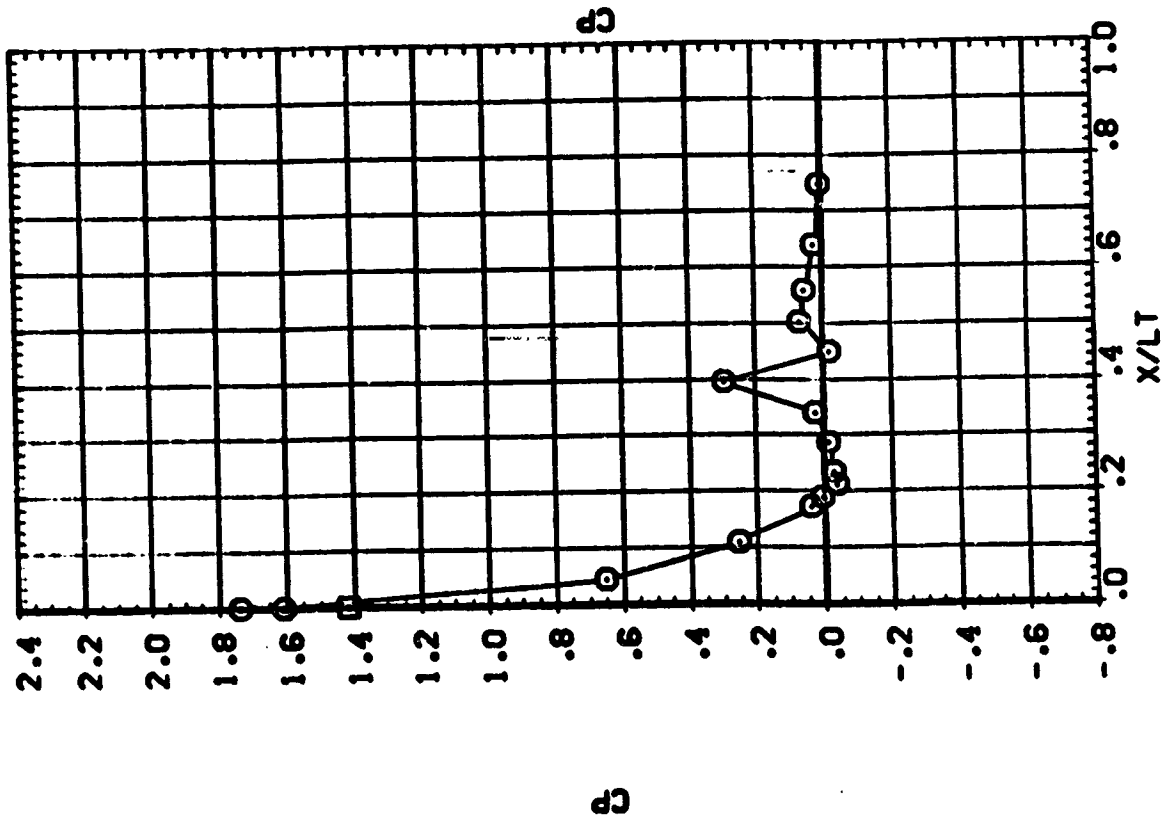
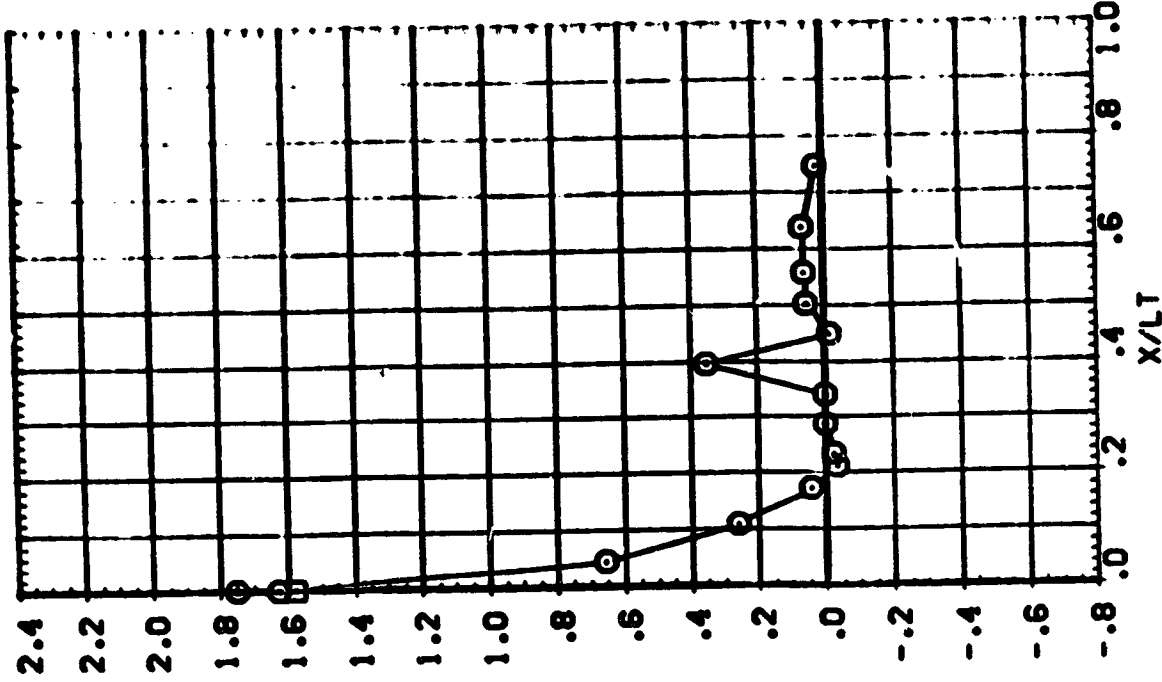
.000
.000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AVES 87-707 1A9 C2A + S3 + 19 EXTERNAL TANK (RBNT04)

SYNCH	BEAT	MACH	ALPHAT	ALPHAT
180.000	-4.340	3.502	0.000	0.000
270.000	2.760		0.000	0.000
			0.000	0.000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

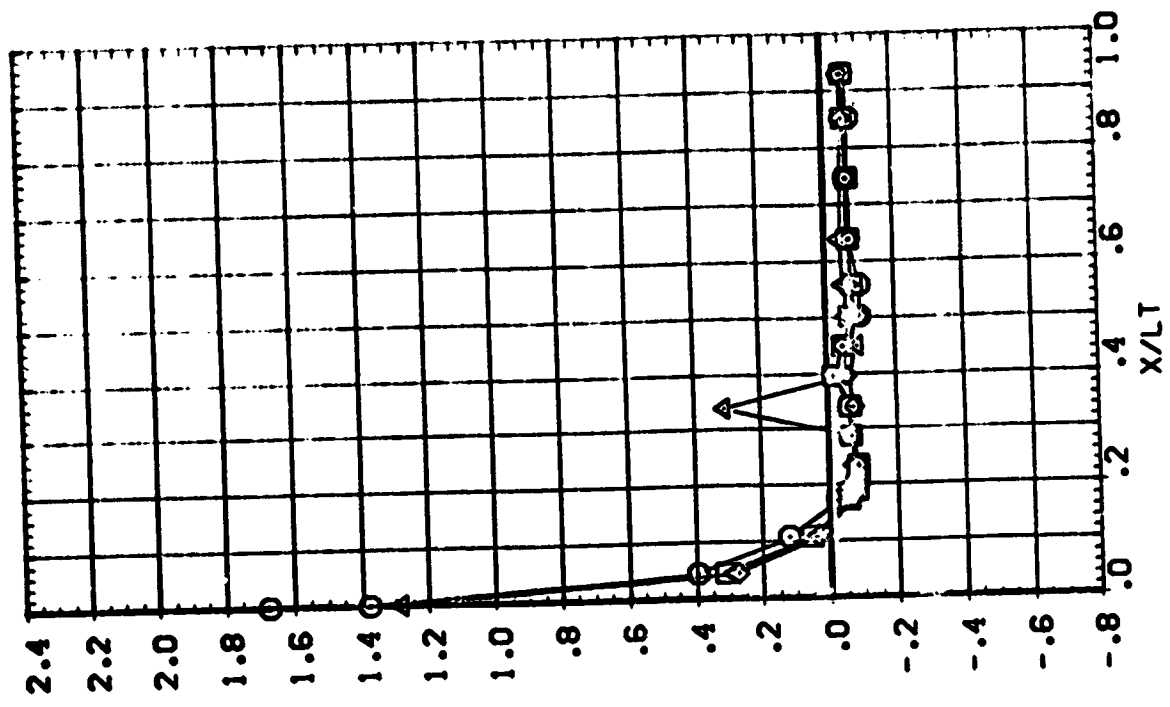
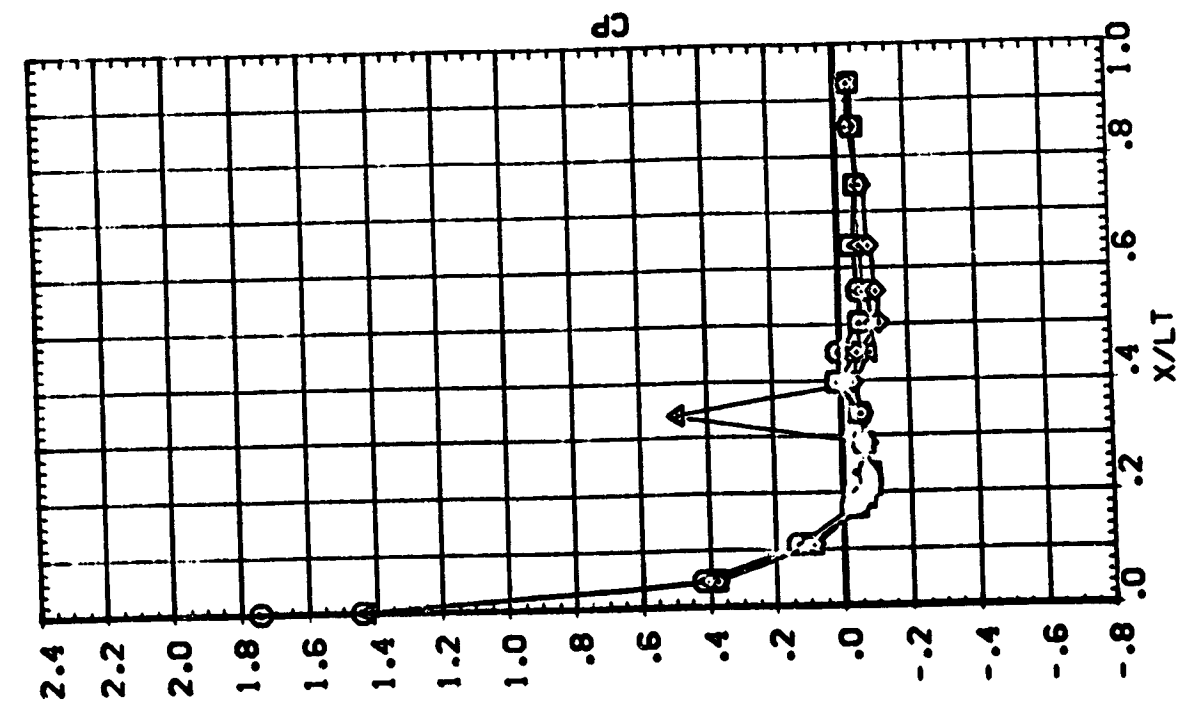
(RBN 04)

AVES 87-707 :A9 G2A - S3 - T8 EXTERNAL TANK

5-10-82
0
0
0

DETAT MACH
4.460 3.502
9.870

PARAMETRIC VALUES
ALPHA -4.000 DBINC .500
RUDER .000 ELEVON .000
RUDLR .000

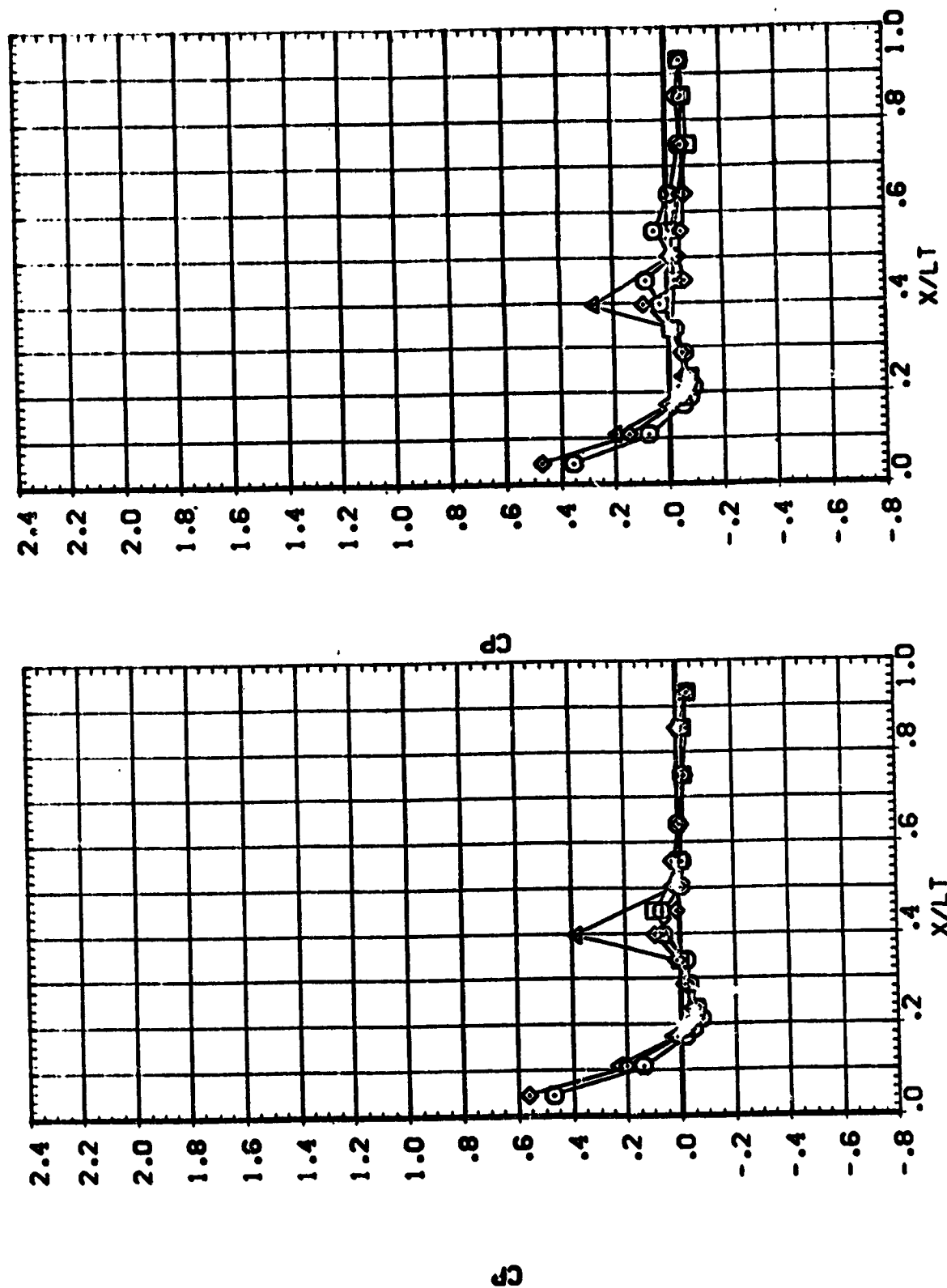


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AVES 87-707 :A9 32A - S3 - 19 EXTERNAL TANK (RBN'04)

PARAMETRIC VALUES
 ALPHA: -4.000 ORBIT: .500
 RUDDER: .000 ELEV: .000
 RSTLR: .000

PHI: 170.000 MACH: 3.502
 SINGC: 135.000
 150.000
 165.000



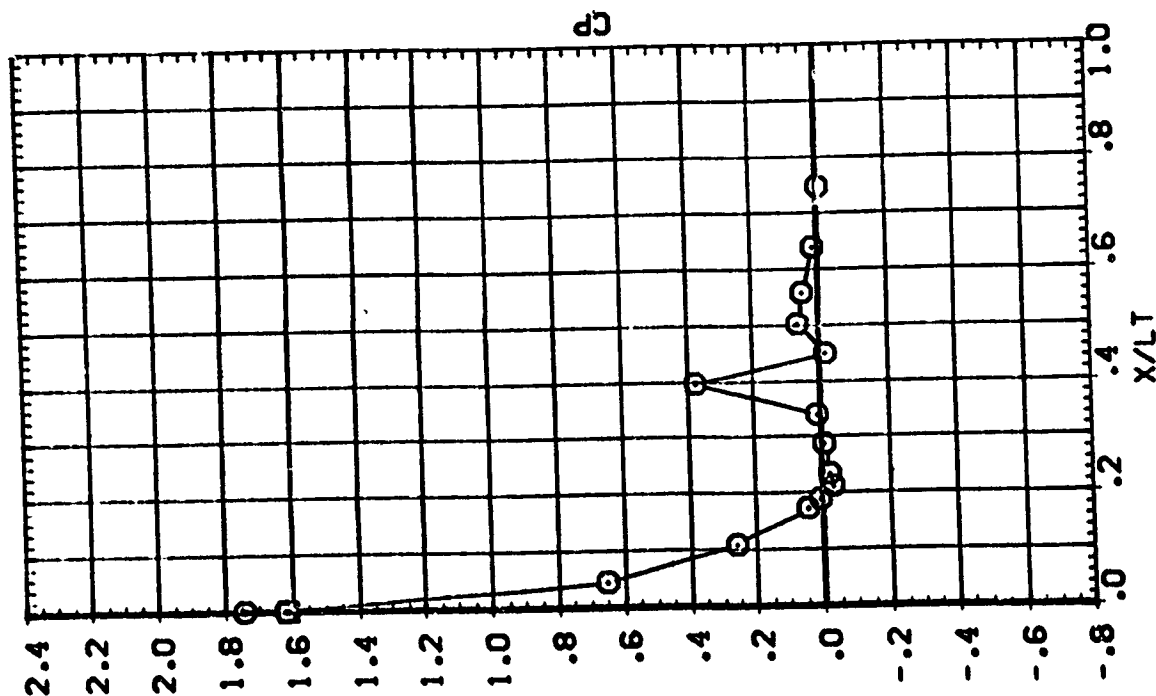
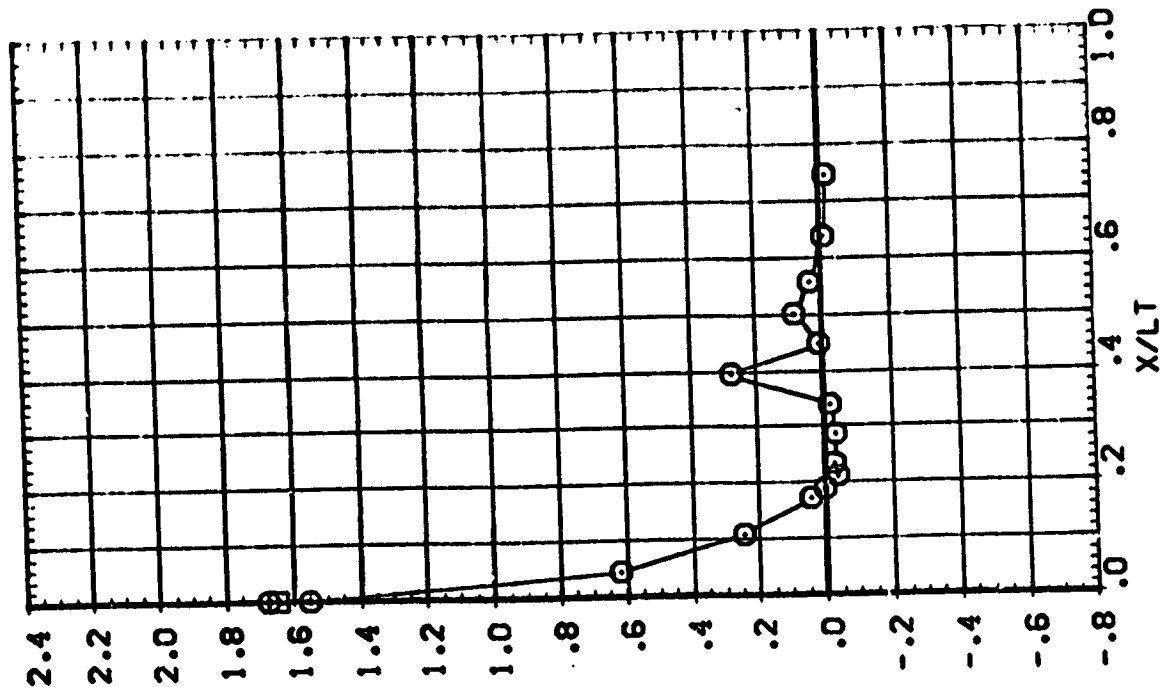
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

(RBN'04)

AVES 87-707 :A9 32A - S3 + T9 EXTERNAL TANK

PARAMETRIC VALUES
ALPHAT -4.000
RUDDER .000
RUDFLR .000

SYNCH- P-1 BETAT MACH
:80.000 4.460 3.532
270.000 8.870

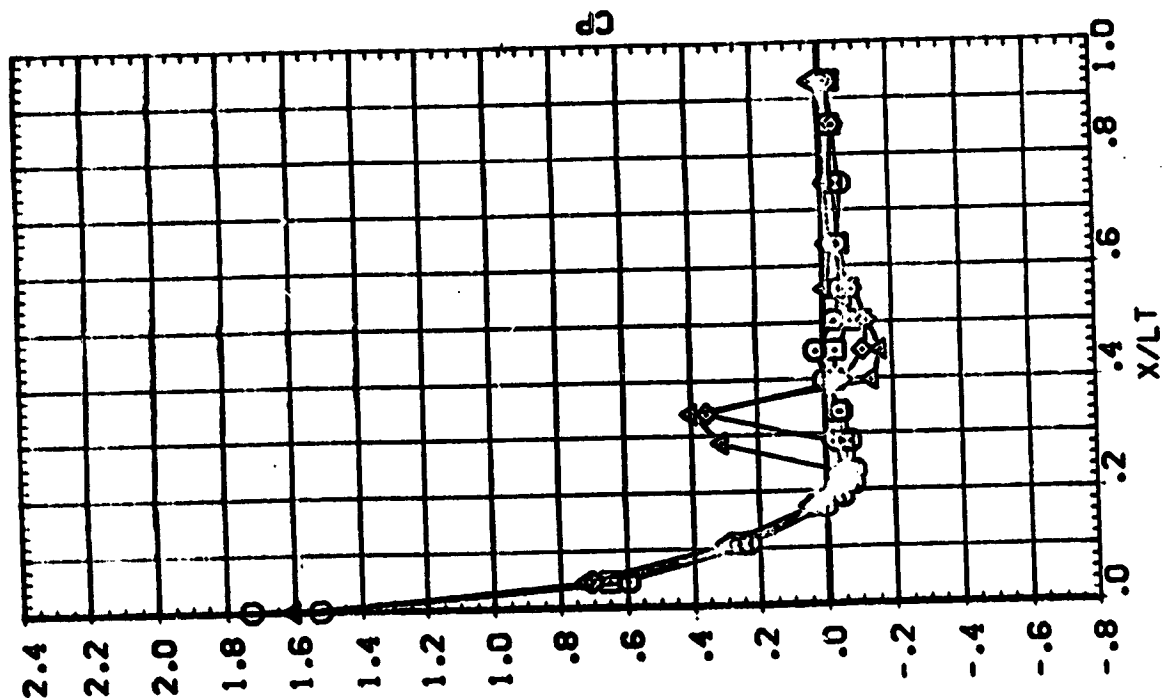
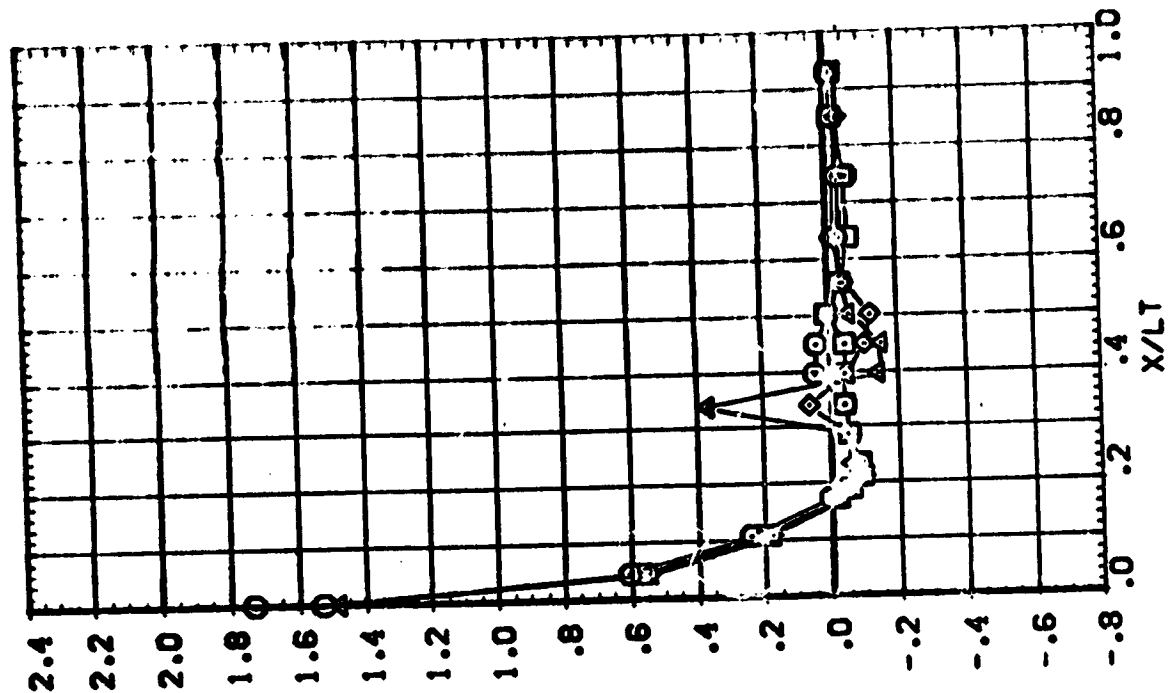


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AVES 87-707 1A9 02A - S3 + 19 EXTERNAL TANK (RBN 06)

PARAMETRIC VALUES
 ALPHA: .000
 RUDDER: .000
 RUOFLR: .000
 DBINC: .000
 ELEVEN: .000

SW30: .000
 30.000
 60.000
 90.000
 BETAT: -4.190
 2.170
 MACH: 2.498



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

(RBN'06)

AVES 87-707 :A9 C2A - S3 - '9 EXTERNAL TANK

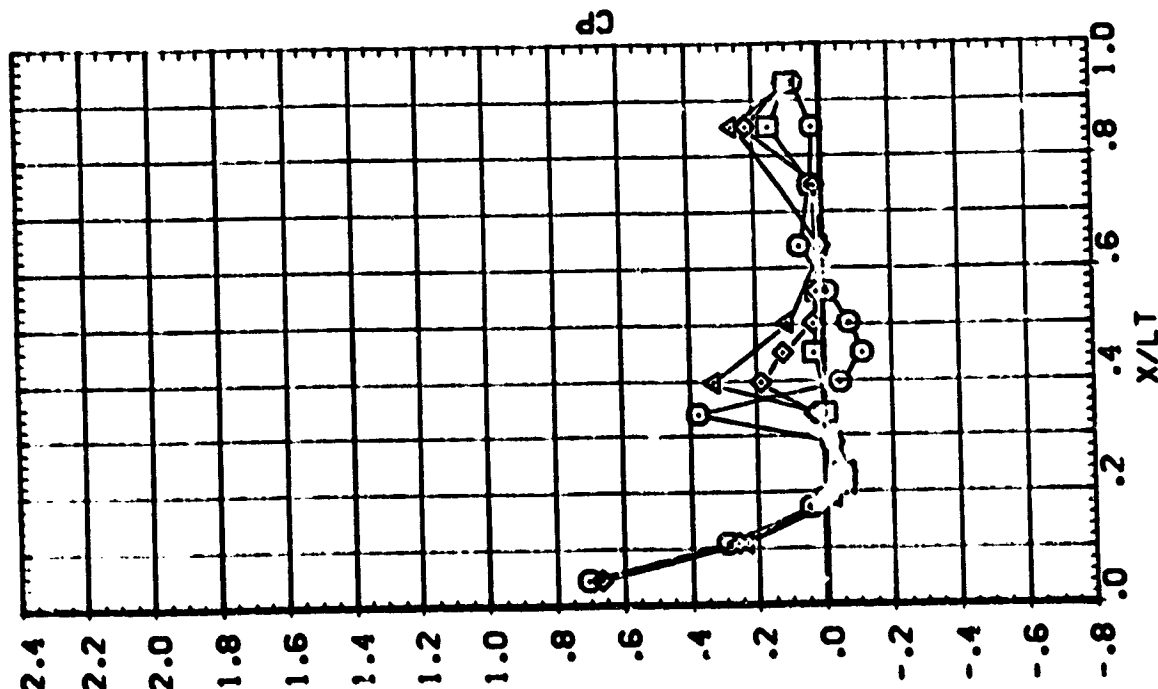
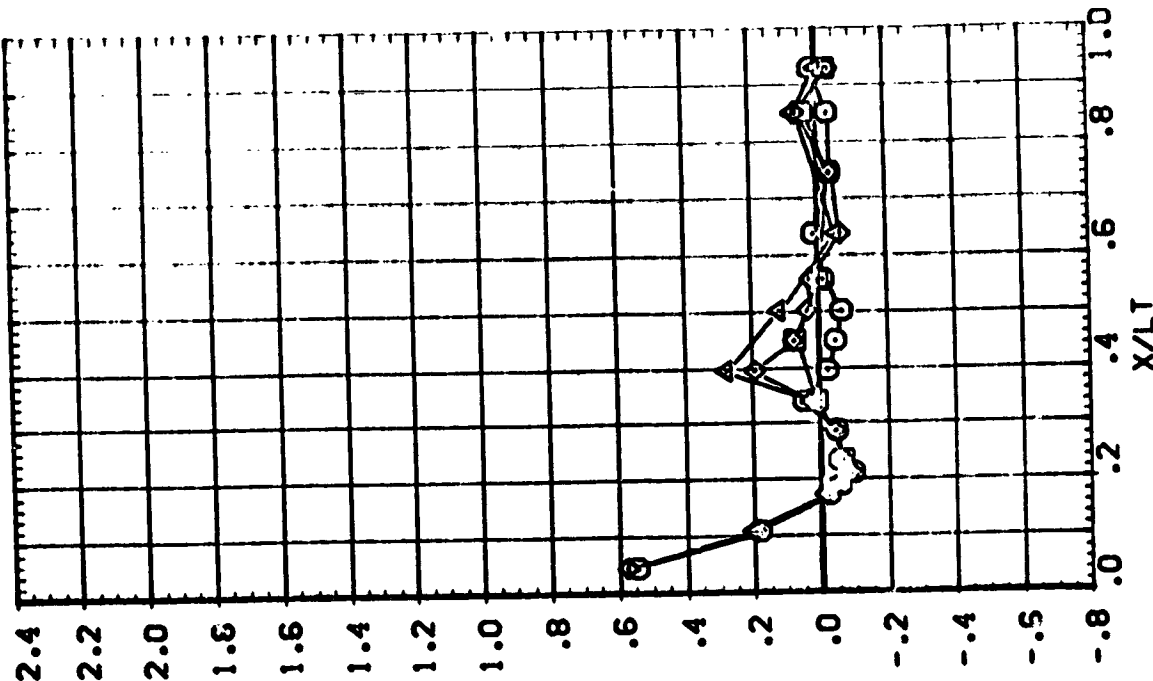
SYEC
C
O
A

REAR
4.9C
2.79

MACH
2.458

ALPHAT
RUDER
RUDLR

PARAMETRIC VALUES
.000 999.5
.000 ELEVON
.000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

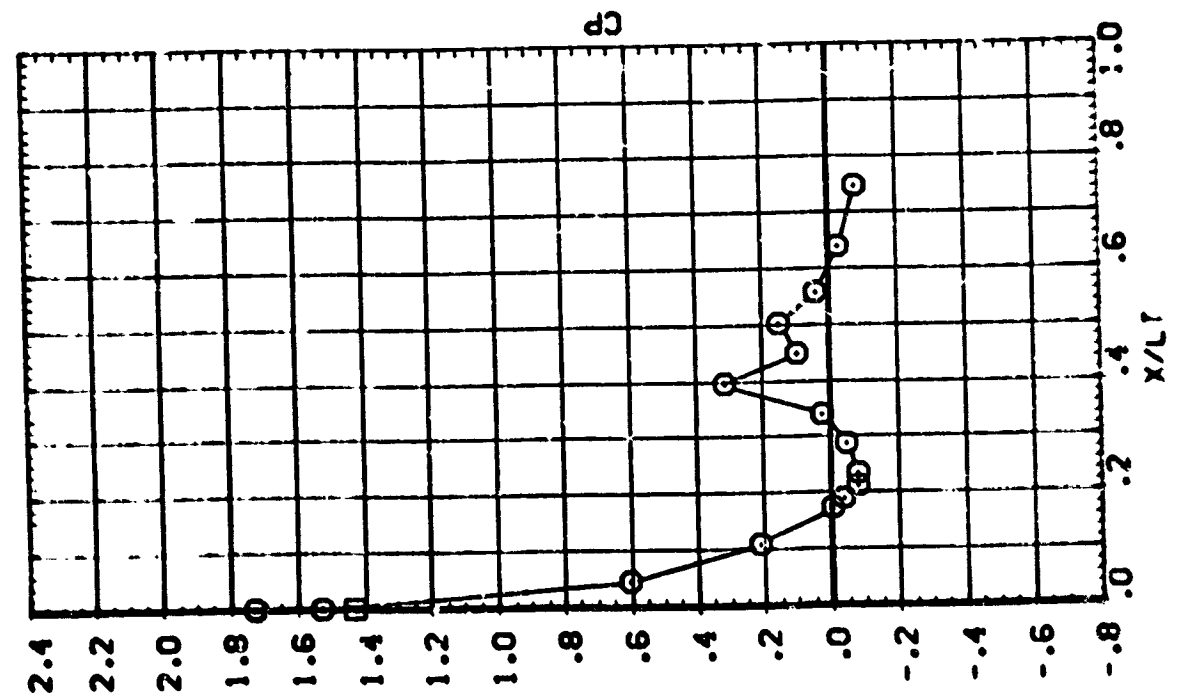
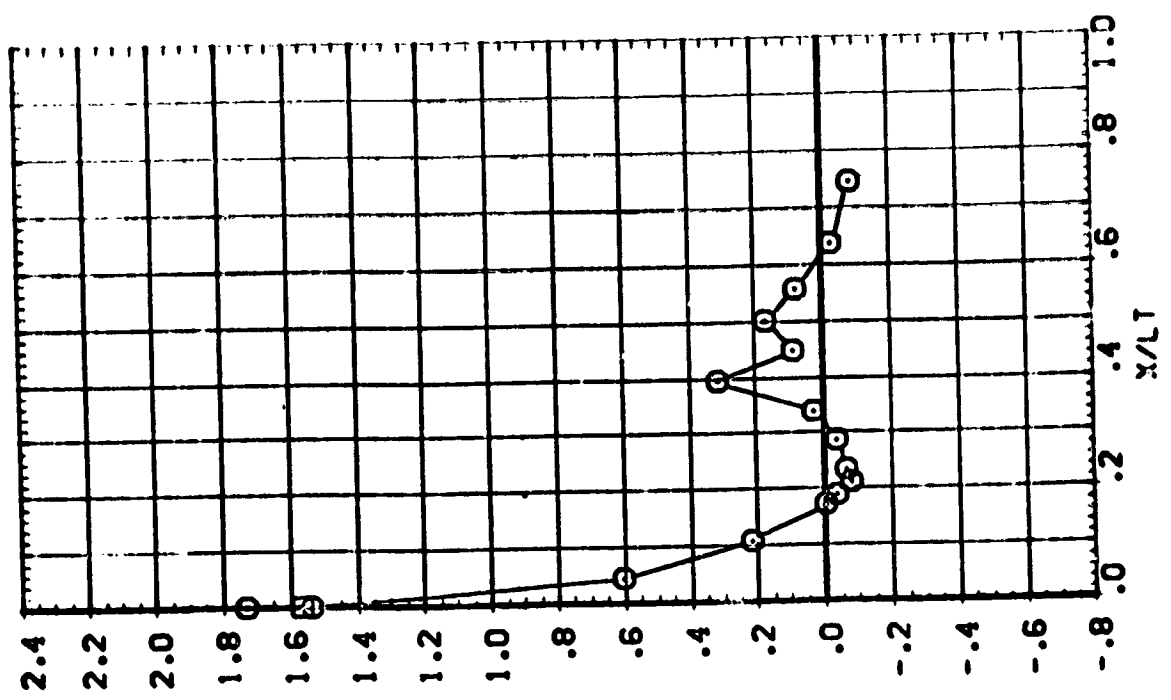
13

1

AV. S 8 1700 1A9 32A - S3 - 19 EXTERNAL TANK (R8NT06)

PARAMETRIC VALUES
ALPHAT .000
RUGGER .000
RUGFLR .000
S991NC .500
ELEVN .100

9400 100.000
7 1.000
8 1.000
9 1.000
10 1.000
11 1.000
12 1.000
13 1.000
14 1.000
15 1.000
16 1.000
17 1.000
18 1.000
19 1.000
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91 1.000
92 1.000
93 1.000
94 1.000
95 1.000
96 1.000
97 1.000
98 1.000
99 1.000
100 1.000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

(RBN'06)

AVES 87-707 :A9 C2A - S3 - '9 EXTERNAL TANK

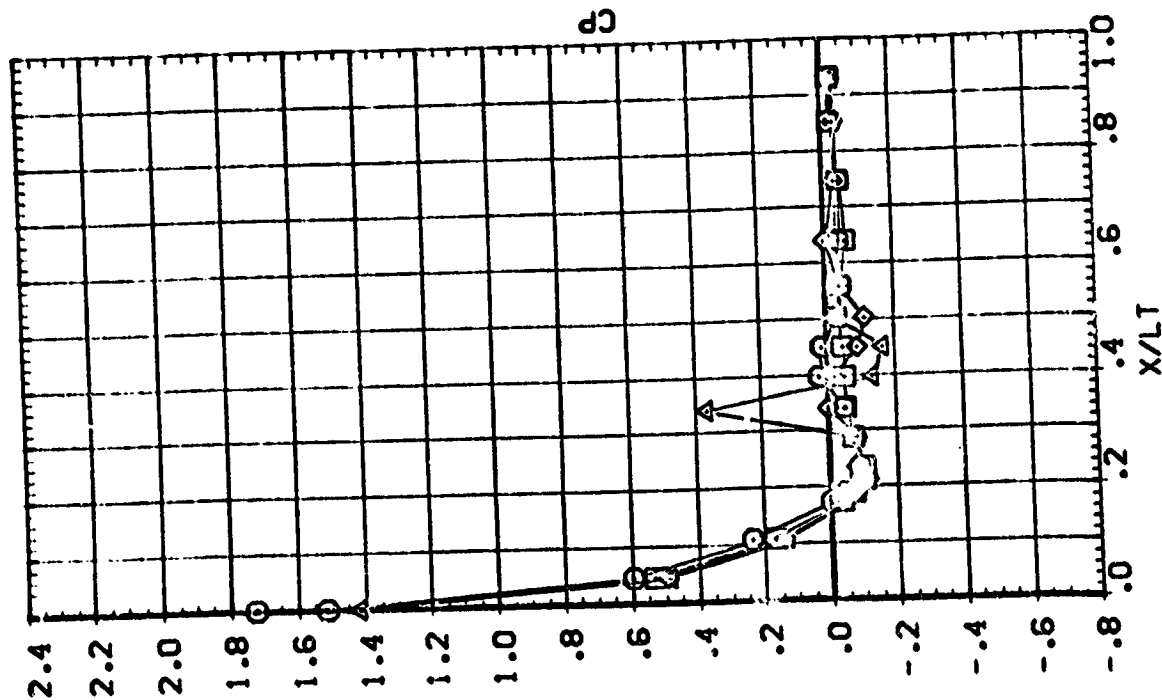
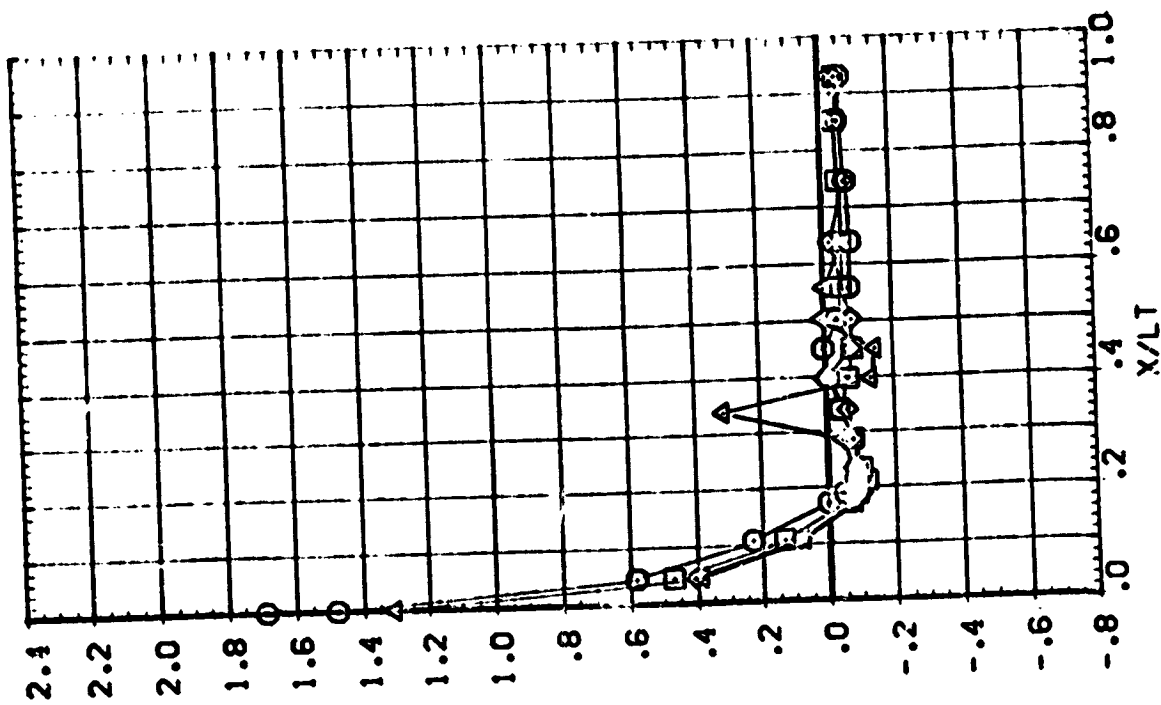
SYSC
() : : :
30.000
60.000
90.000

BETA1 MACH
4.790 2.498
8.540

ALPHA1
.000
.000
.000

ALPHA1
RUDER
RUFLR

PARAMETRIC VALUES
.000 .000 .000
.000 .000 .000
.000 .000 .000



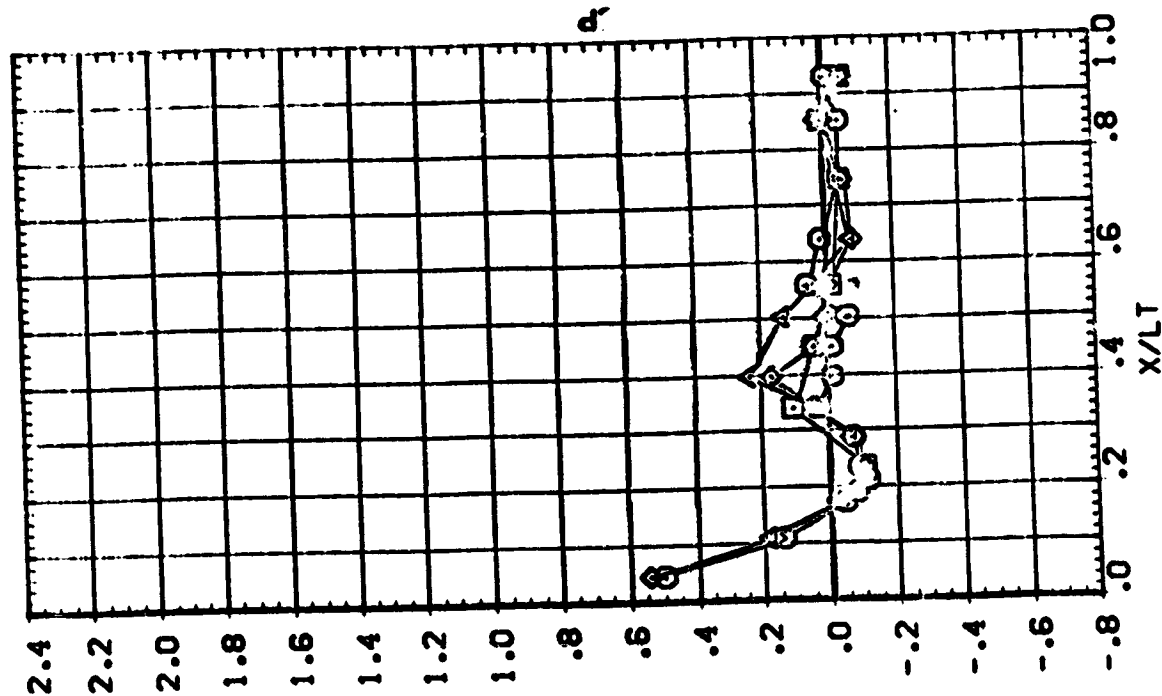
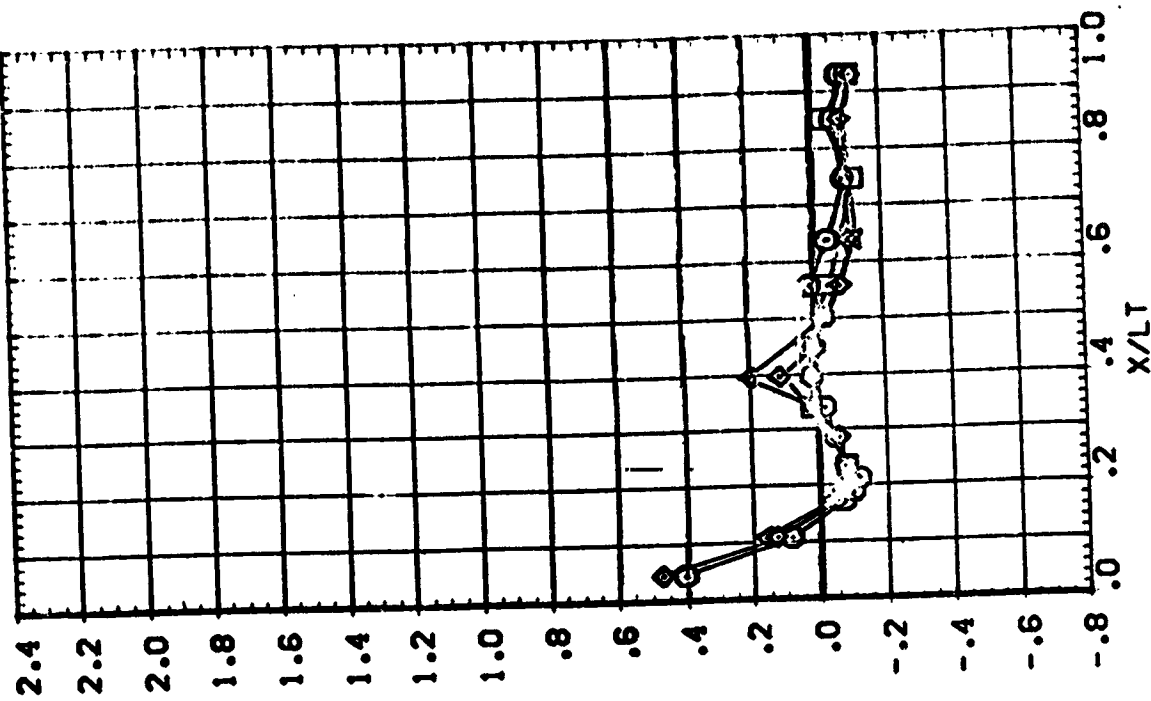
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AVES 87-707 :A9 02A + S3 + 19 EXTERNAL TANK (RBNTCS)

SYNOPSIS
 170.000
 135.000
 150.000
 165.000

BEAT MACH
 4.290 2.498
 8.540

PARAMETRIC VALUES
 ALPHA° .000
 RUDDER .000
 RUDDLR .000
 DB:NC .500
 ELEVON .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

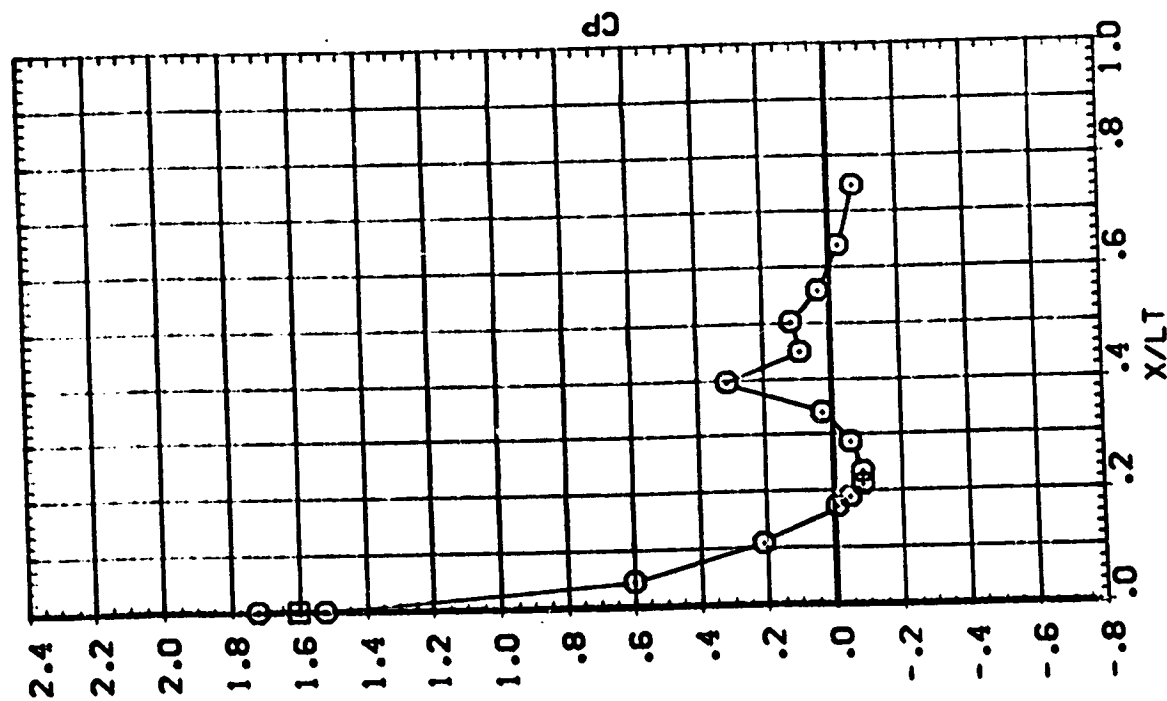
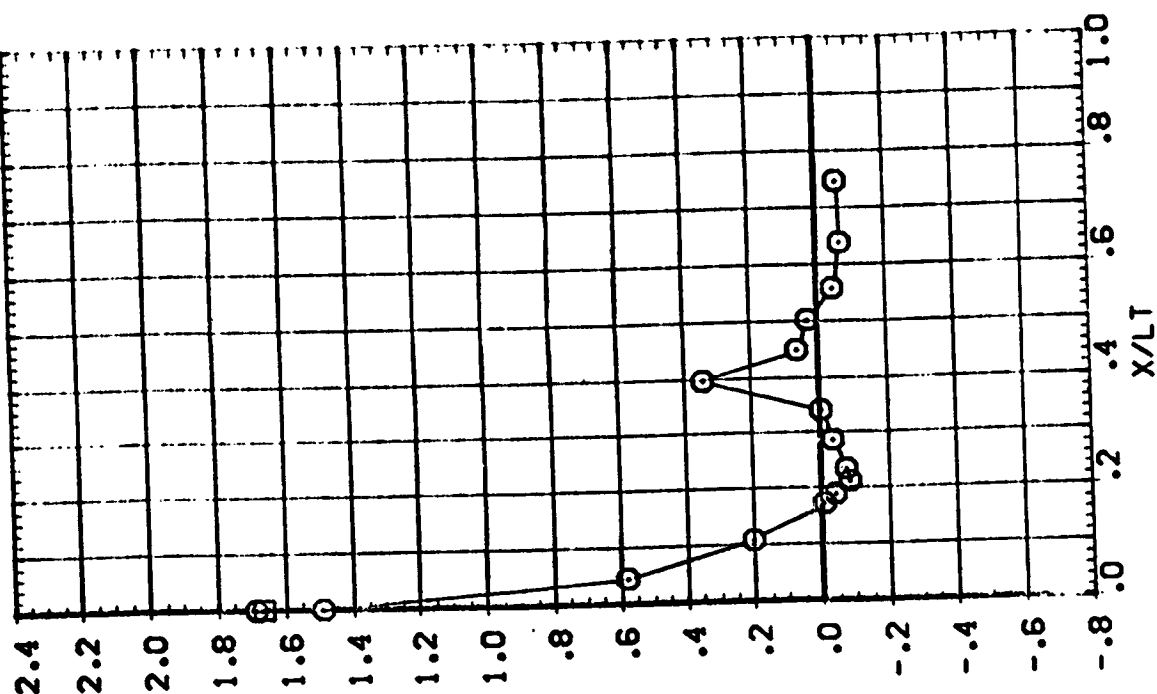
(RBN-05)

AVES 87-707 :A9 02A - S3 - 18 EXTERNAL TANK

SWBC
0
1

DEL: 180.000 270.000
BETA: 4.790 8.540
WASH 2.498

PARAMETRIC VALUES
ALPHA: .000 .000 .000
RUDER: .000 .000 .000
ELEV: .500 .000 .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

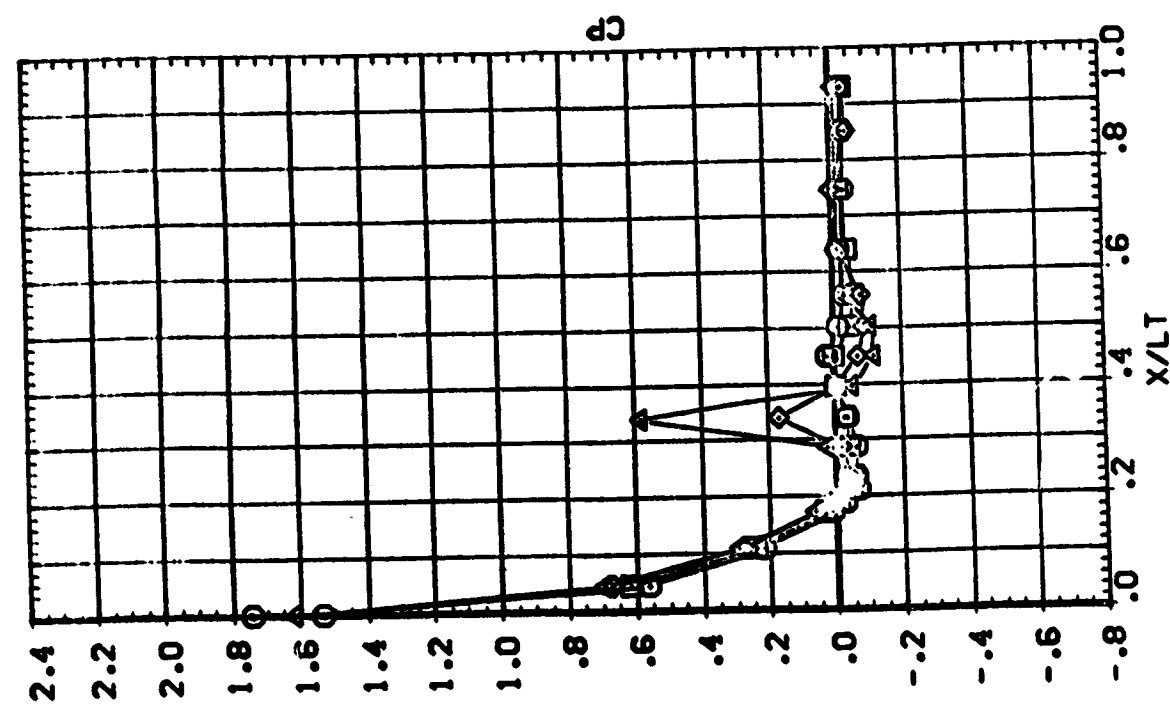
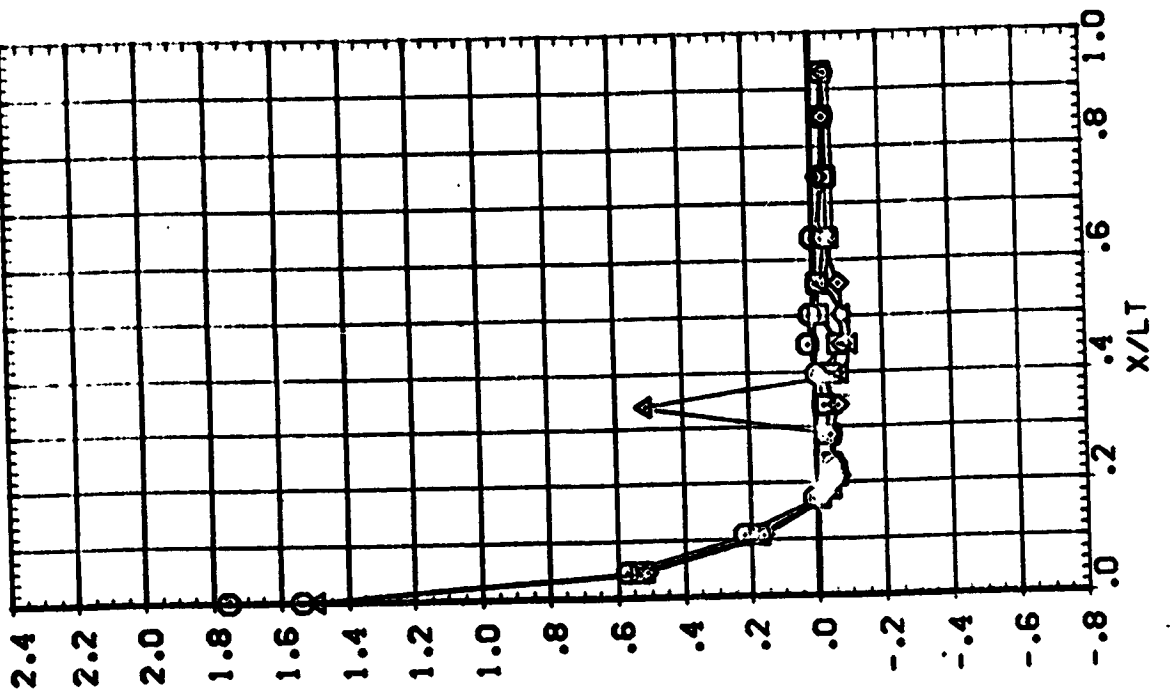
AVES 87-707 :A9 02A + 03 + '9 EXTERNAL TANK (RBN'06)

SYSC
0
30,000
60,000
90,000

BETAT
-4.270
2.210

WACH
2.999

PARAMETRIC VALUES
ALPHA1
RUDER
RUDFLP
.000
.000
.000
0.000
0.000
0.000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

(RBN'06)

AVES 87-707 :A9 32A - S3 + '9 EXTERNAL TANK

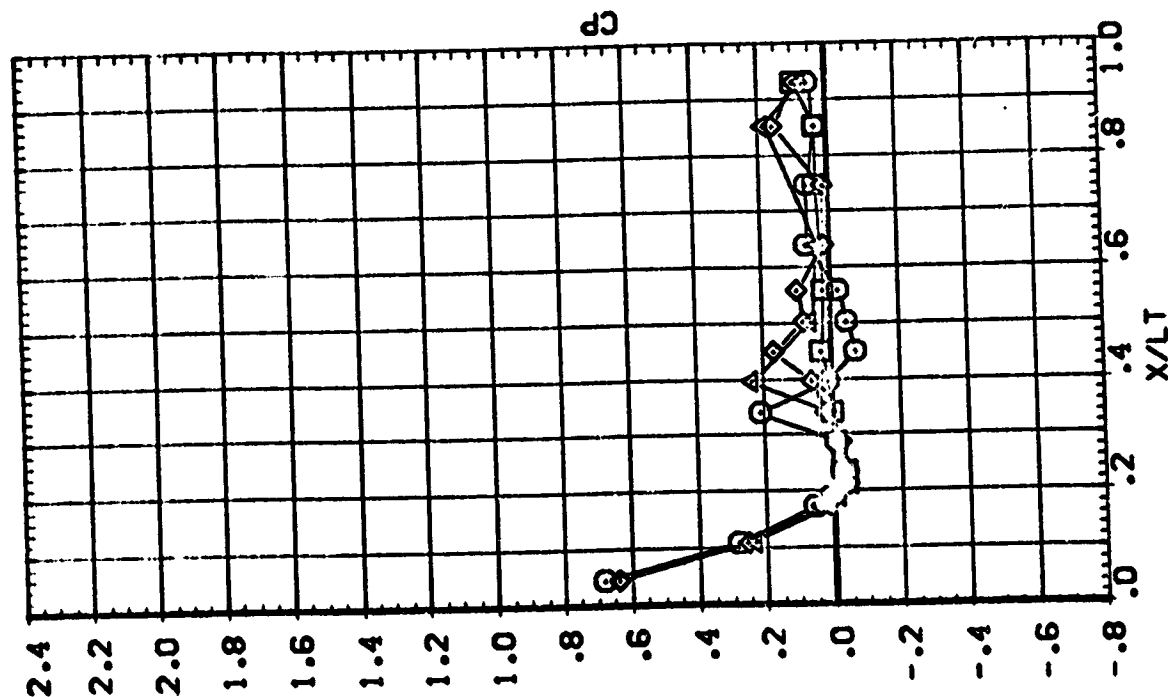
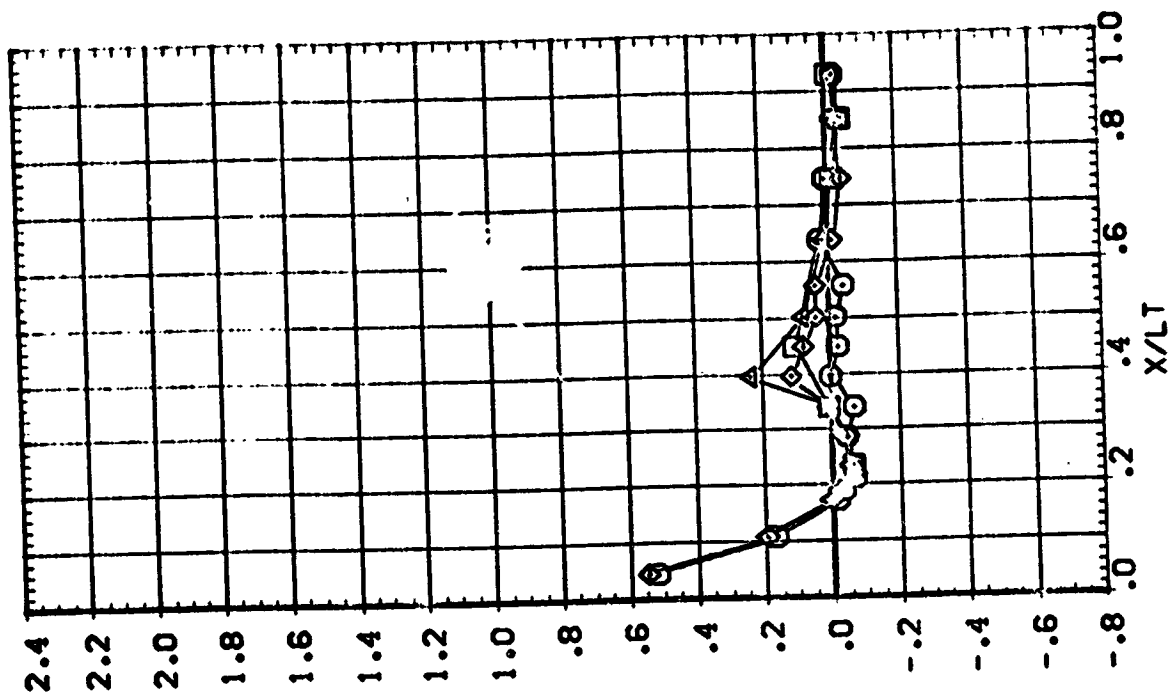
SYMC
○
◇
△

PAI
120.000
135.000
150.000
165.000

BETA
-4.270
2.210

MACH
2.999

PARAMETRIC VALUES
ALPHA: .000
RUDER .000
RUDLR .000
ORBITC .500
ELEVON .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AVES 87-707 1A9 02A - S3 + 9 EXTERNAL TANK (R3N06)

S-48C

180.000
770.000

BETAT -4.270
2.210

MACH 2.999

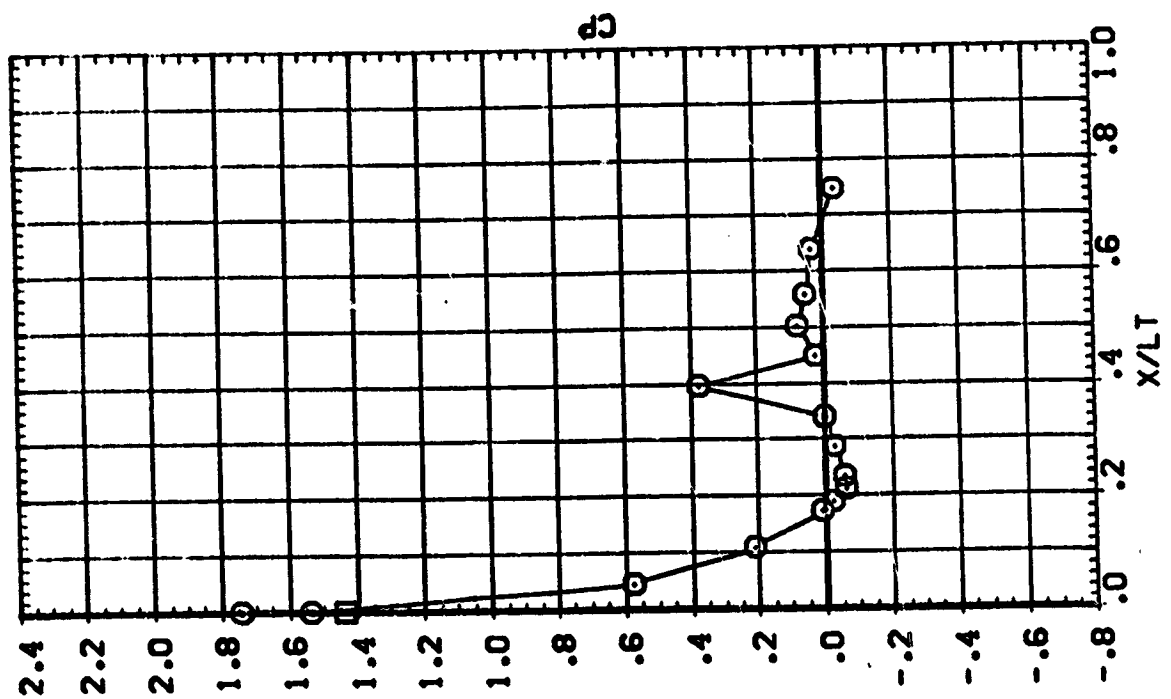
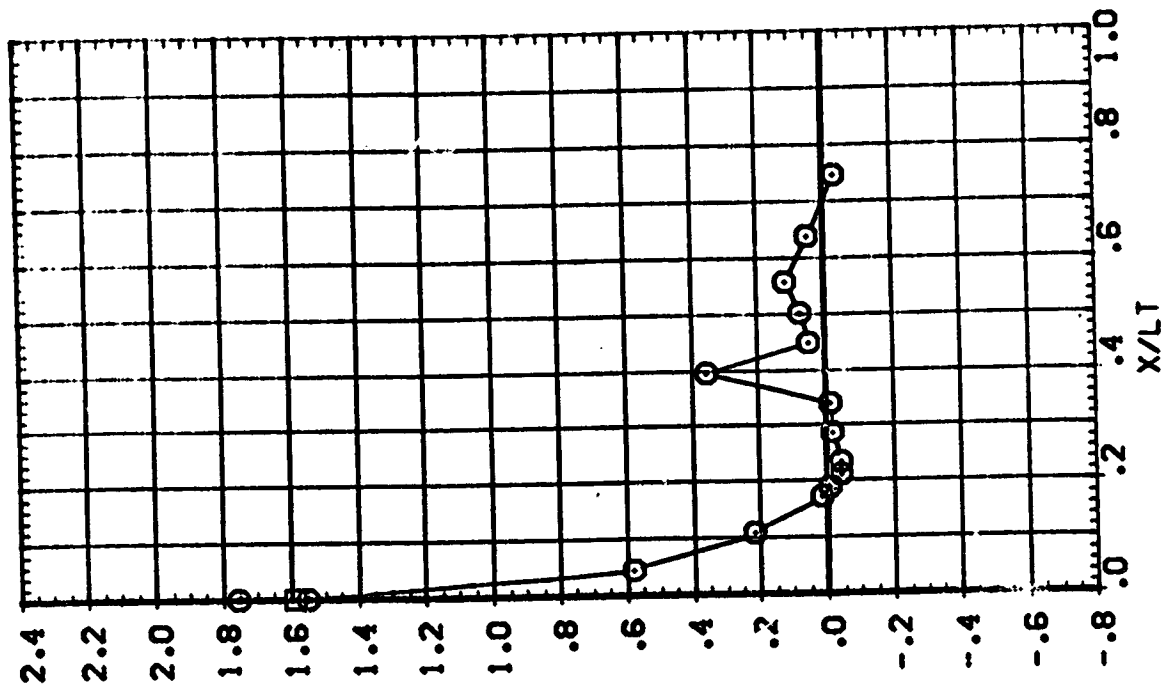
PARAMETRIC VALUES

ALPHAT
RUDER
RUDFLR

.000
.000
.000

DBINC
ELEVON

.500
.000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

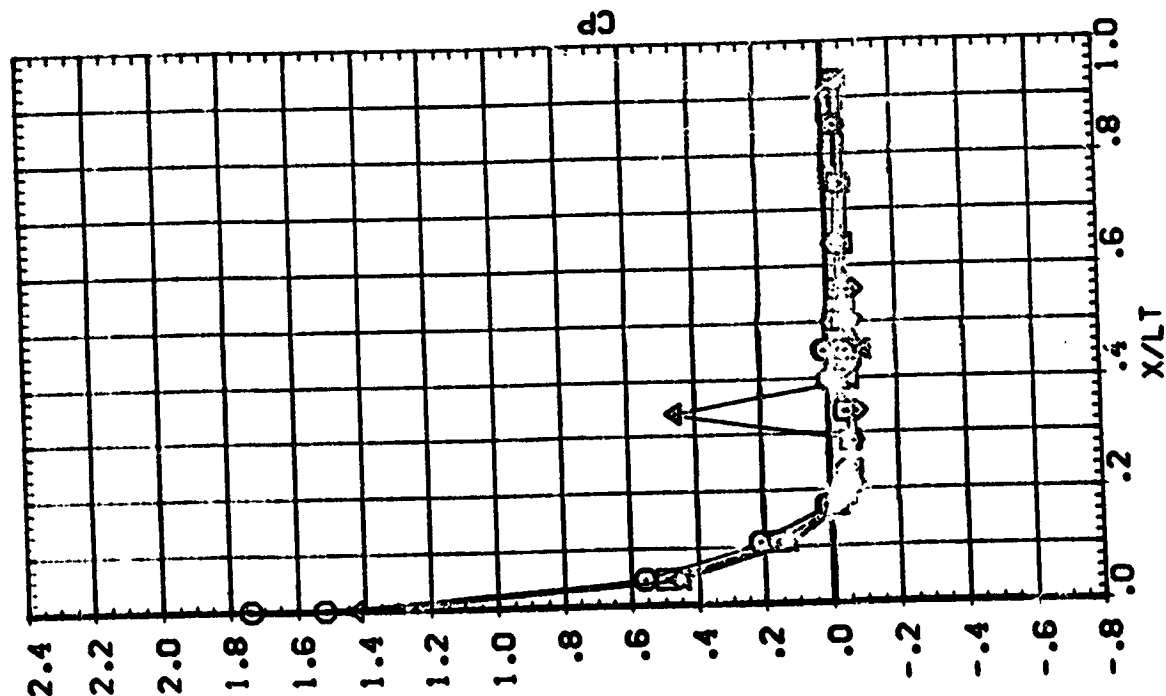
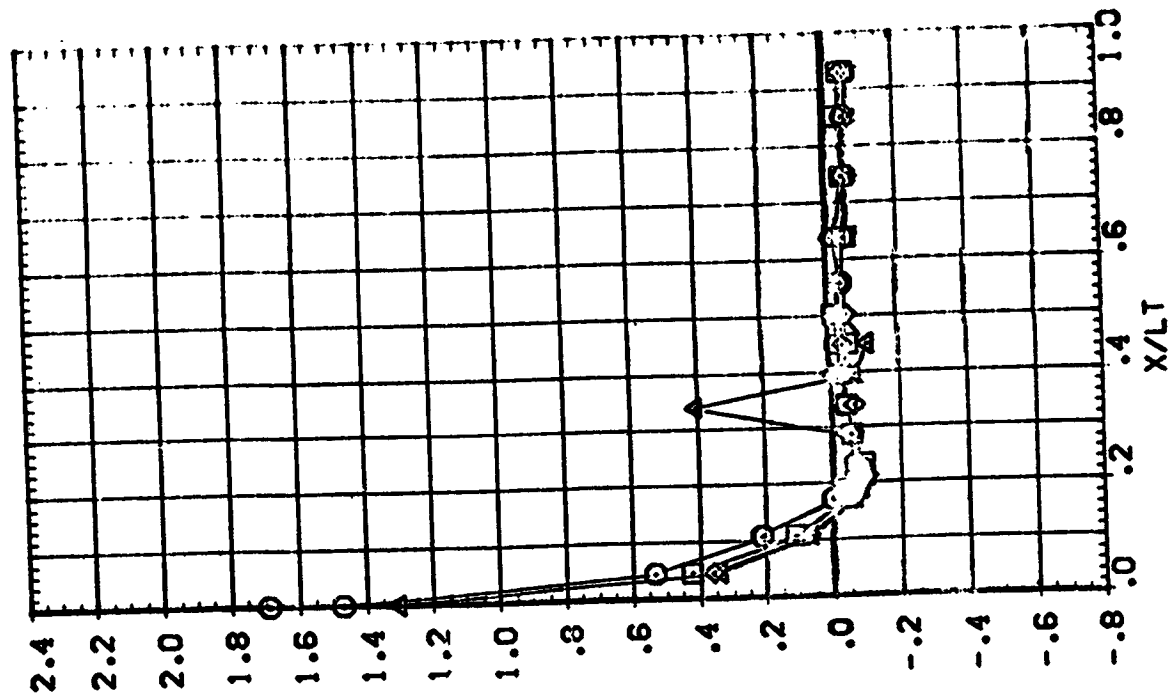
(RBNT06)

AVES 87-707 :A9 32A - S3 + 19 EXTERNAL TANK

SYMBOL
 O
 I
 Δ

DEL BE" "ACH
 .000 4.370 2.999
 30.000 8.690
 60.000
 90.000

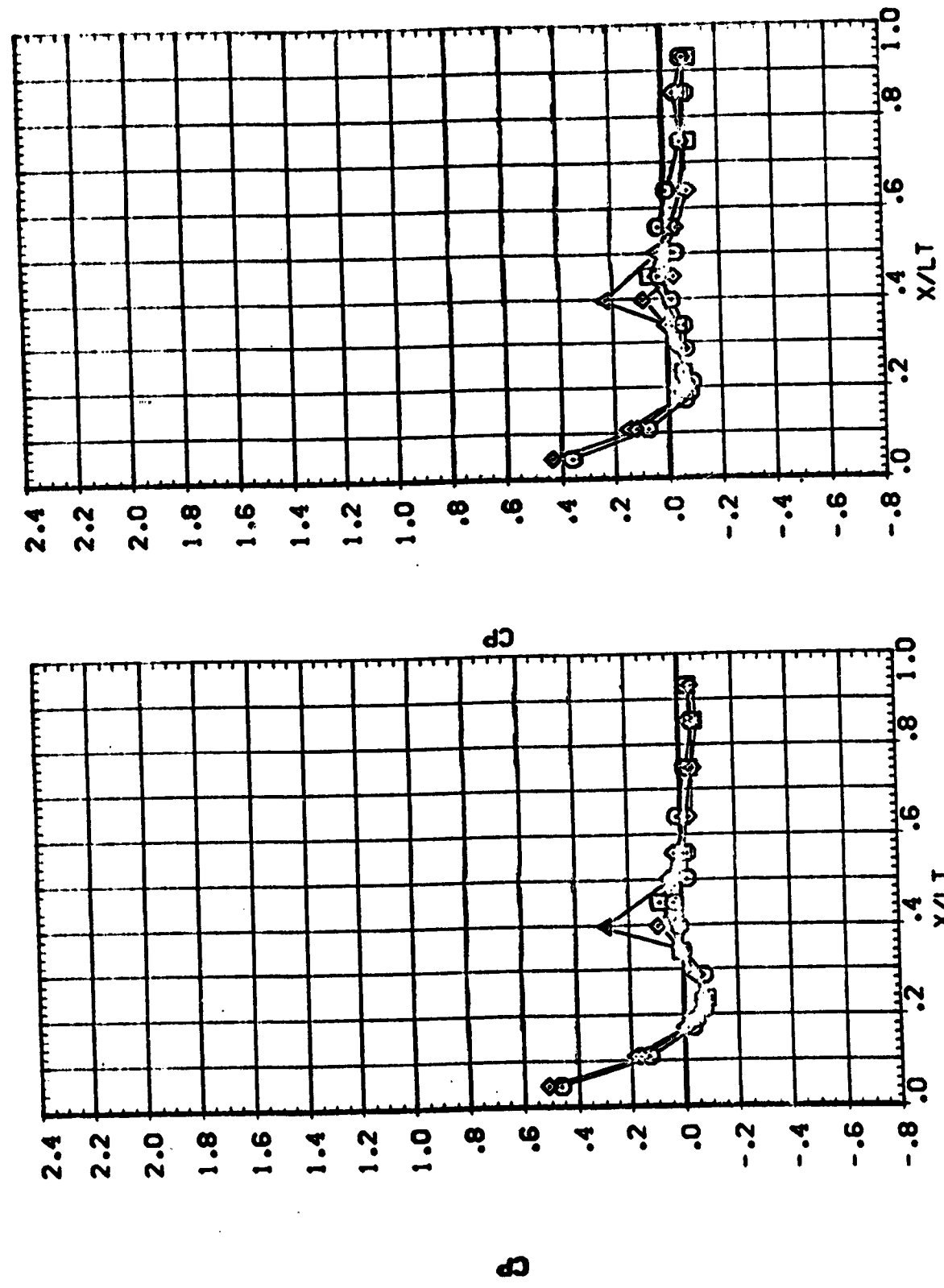
PARAMETRIC VALUES
 .000 .000 .000 .000
 .000 .000 .000 .000
 .000 .000 .000 .000
 .000 .000 .000 .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AVES 87-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBT06)

PARAMETRIC VALUES	ALPHA	BETA	MACH
.000	.000	4.370	7.999
.000	.000	8.690	
.000	.000		
.000	.000		



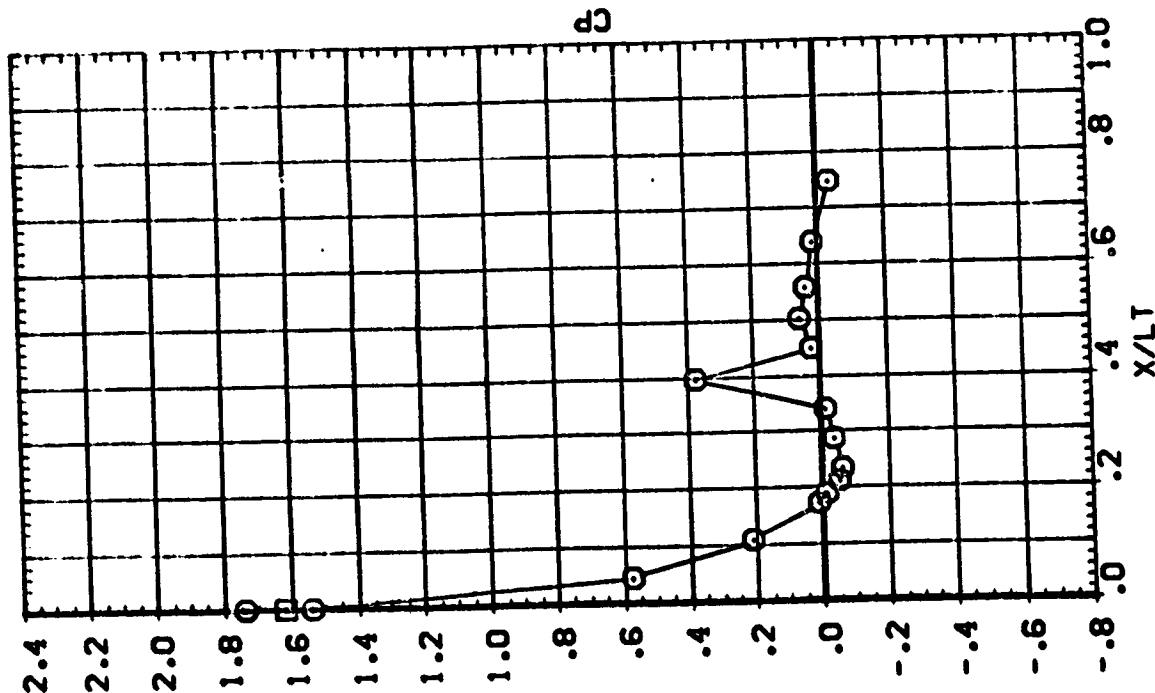
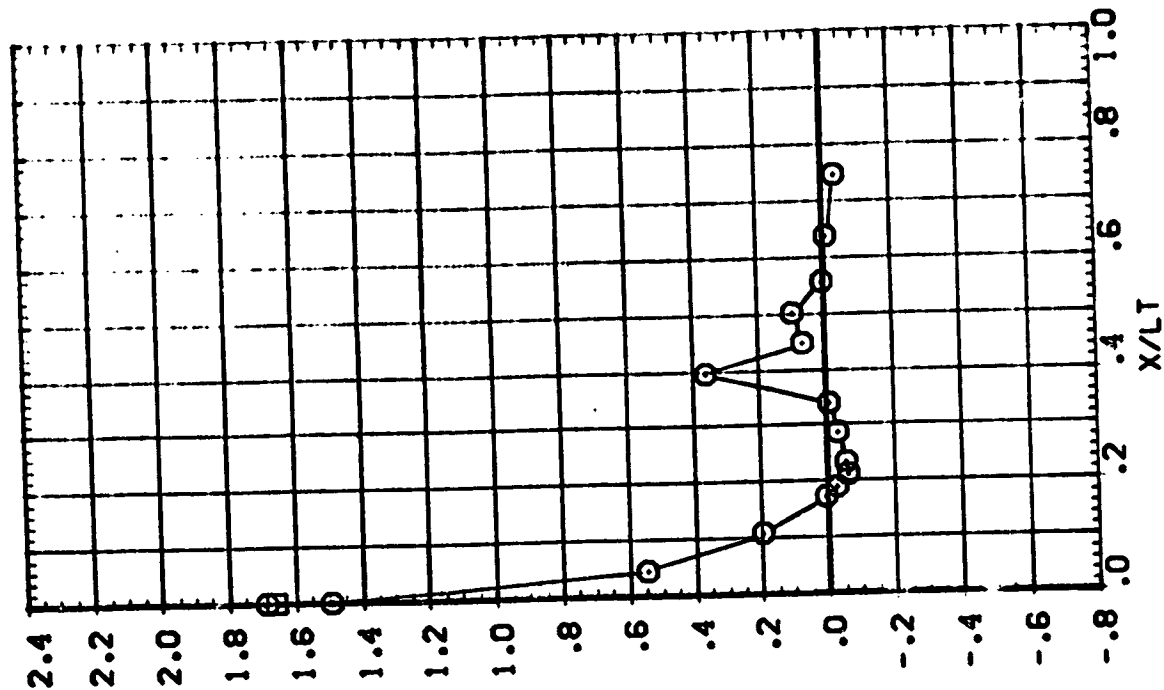
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

(RBN706)

AVES 87-707 :A9 C2A - S3 - 9 EXTERNAL TANK

PARAMETRIC VALUES
ALPHAT .000 29812
RUCOR .000 ELEVN .000
RUCFLR .000

SUBC
:8C.000
77C.000
BETAT 4.370 MACH 2.999
8.69C



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

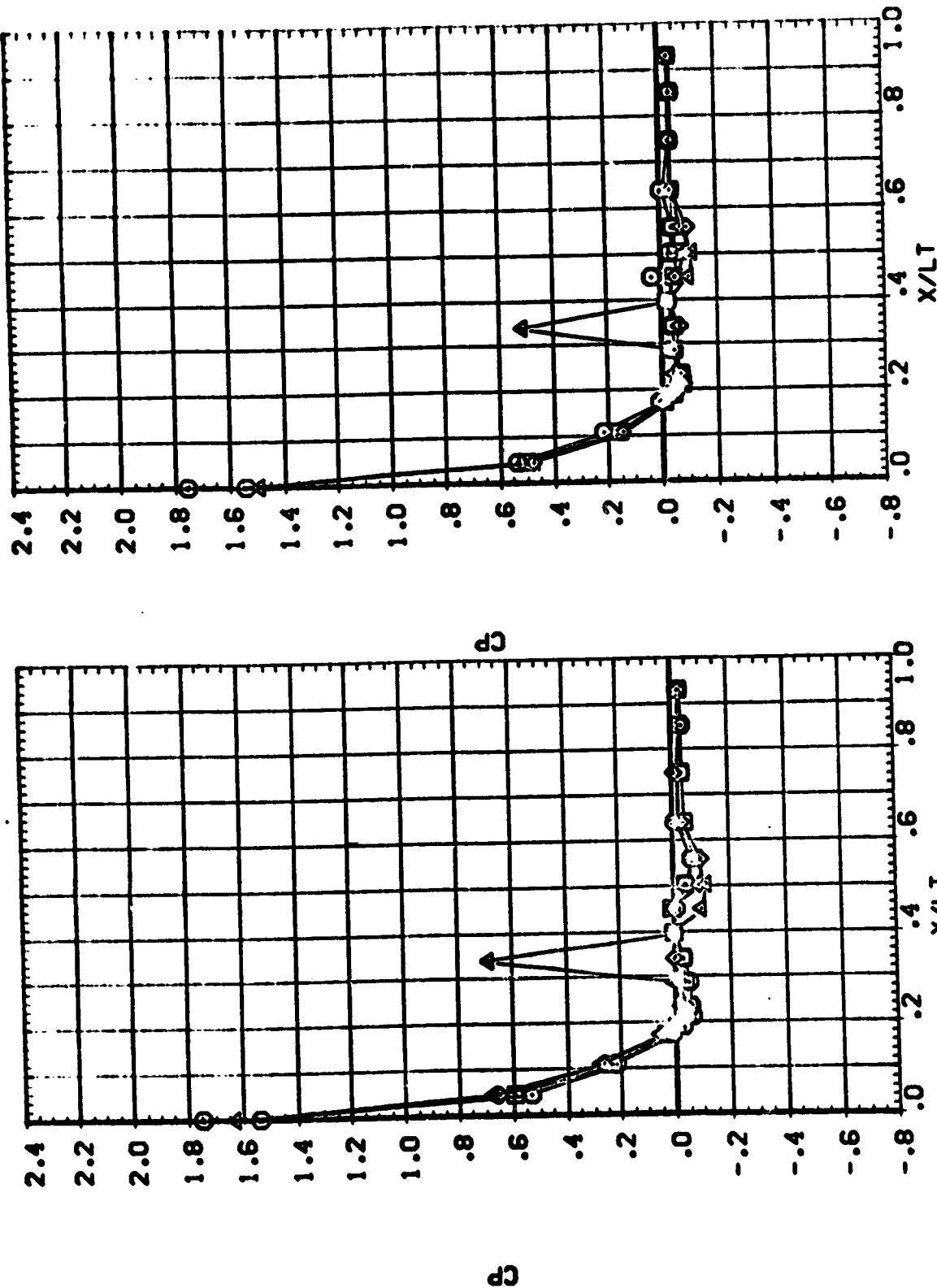
AVES 87-7C7 :A9 02A + S3 + T9 EXTERNAL TANK (RBNT06)

SYMBOL
 P-1
 30.000
 60.000
 90.000

BETA
 -4.34C
 2.76C

MACH
 3.502

PARAMETRIC VALUES
 ALPHAT
 RUDDER
 RUOFLR
 .000
 .000
 .000
 .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

(RBN'06)

AVES 87-707 :A9 32A - S3 - 19 EXTERNAL TANK

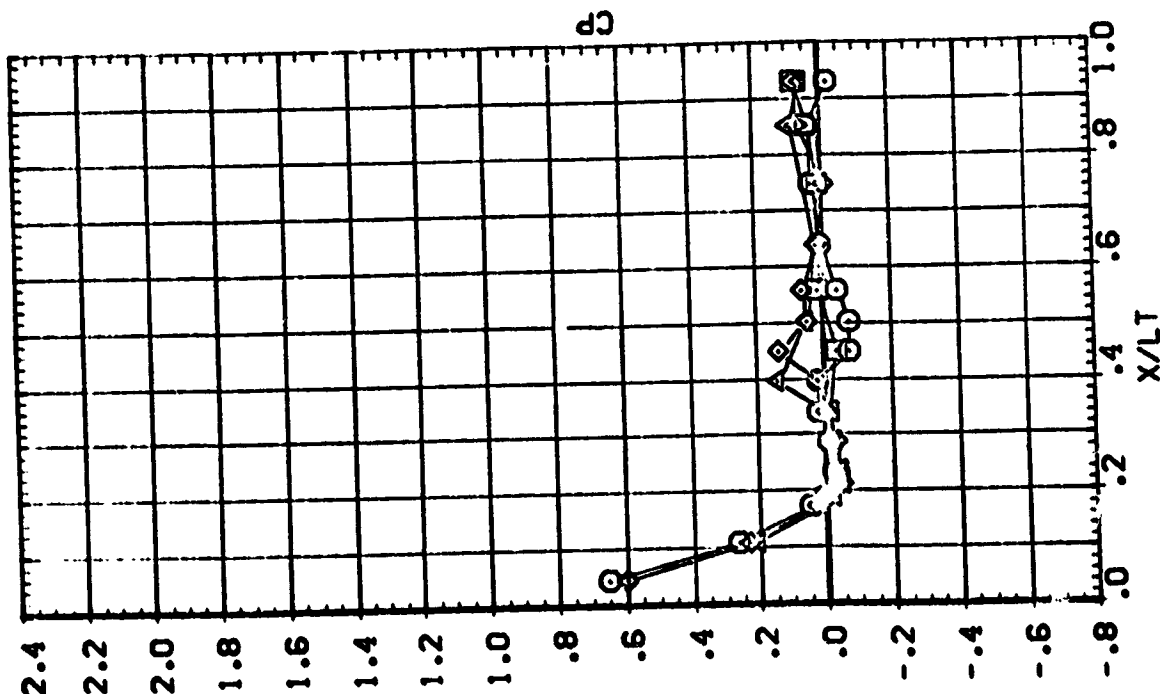
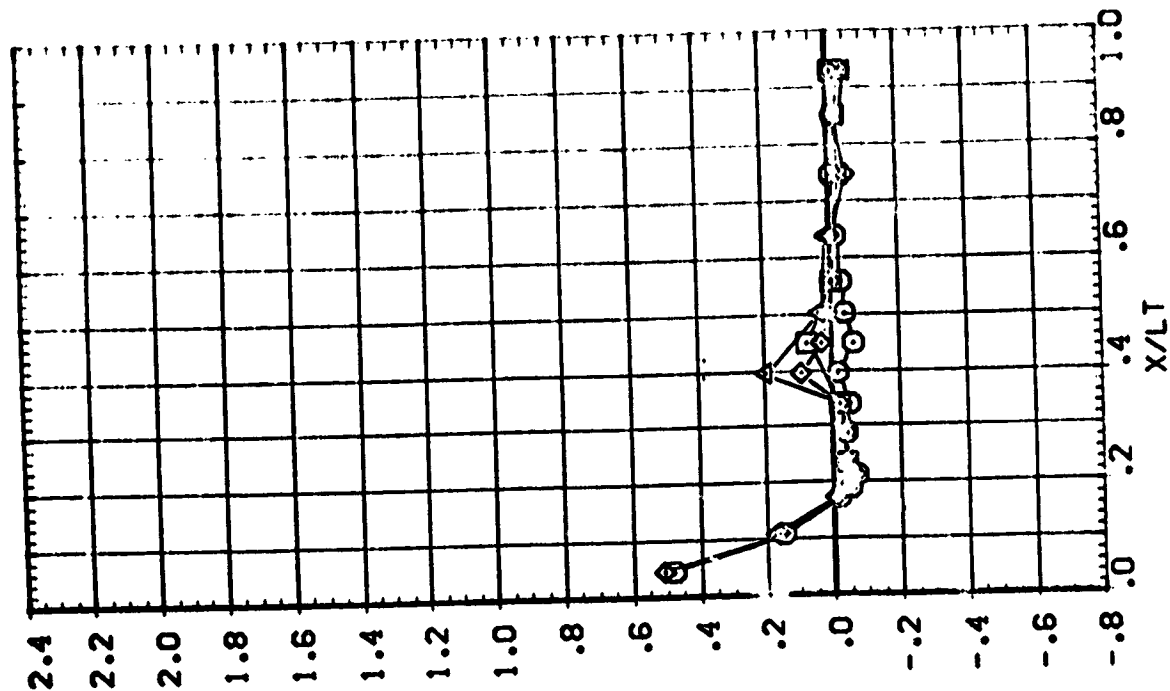
S'VEC
 0
 1
 2
 3

PA: 70.000
 35.000
 50.000
 65.000

SEAT 4.340
 7.760

WAC 3.502

PARAMETRIC VALUES
 ALPHAT .000
 RUDDER .000
 RUDLR .000
 .000
 .000
 .000

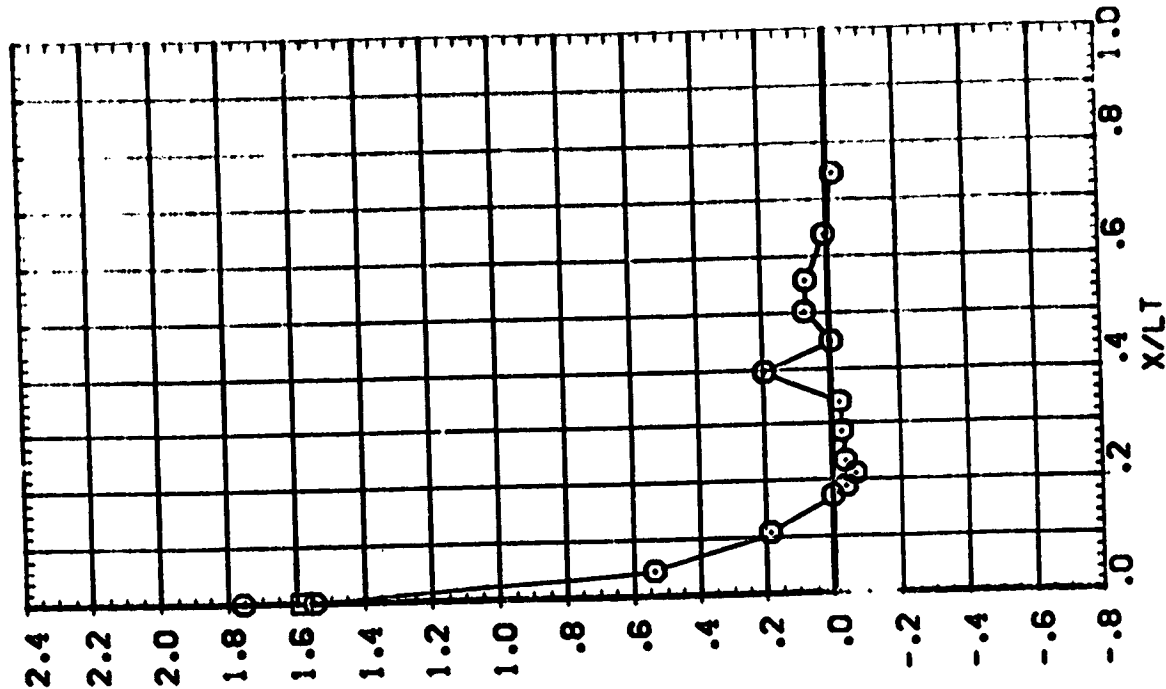
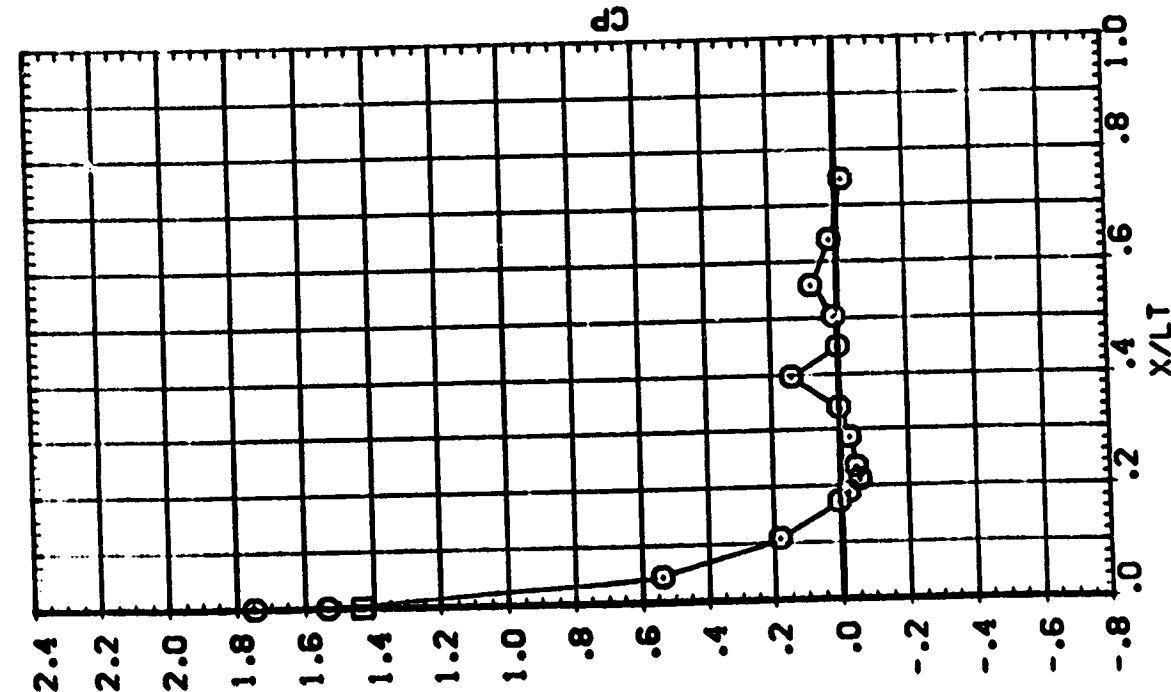


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AVES 87-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBNT06)

SYMBOL: 180.000 270.000
 BEAT: -4.340 2.260
 WACH: 3.500

PARAMETRIC VALUES
 ALPHAT: .000
 RUDER: .000
 RUDER: .000
 ELEV: .000
 ELEV: .000



(RBNTC6)

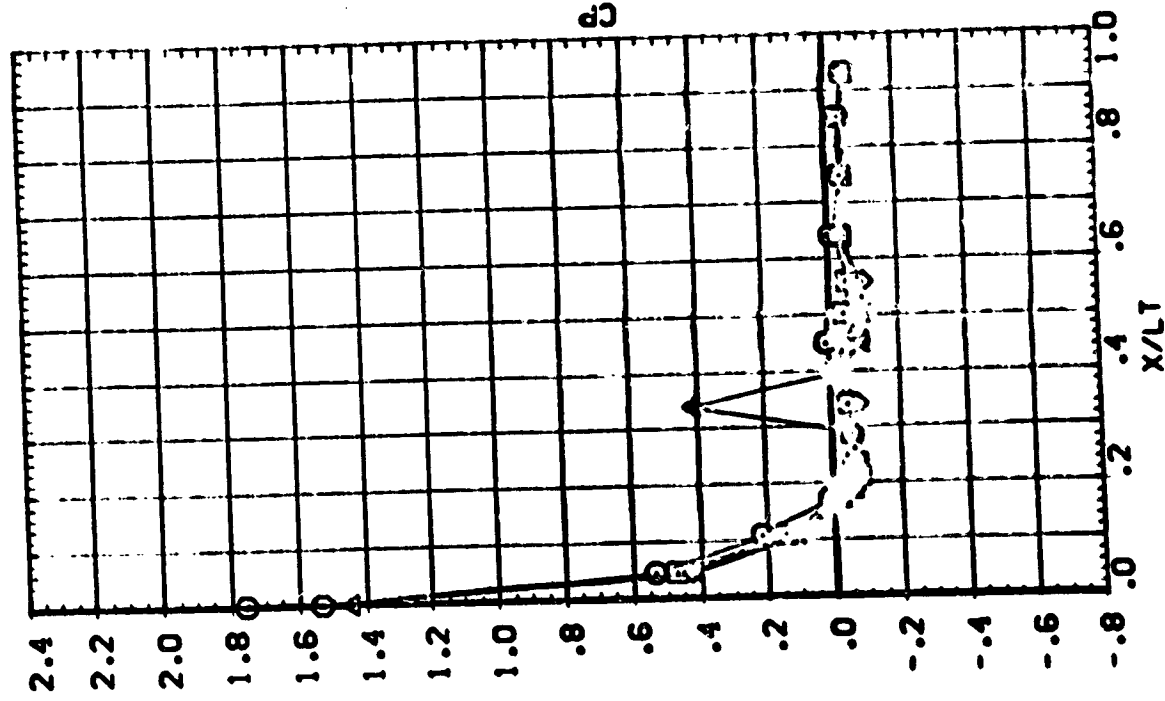
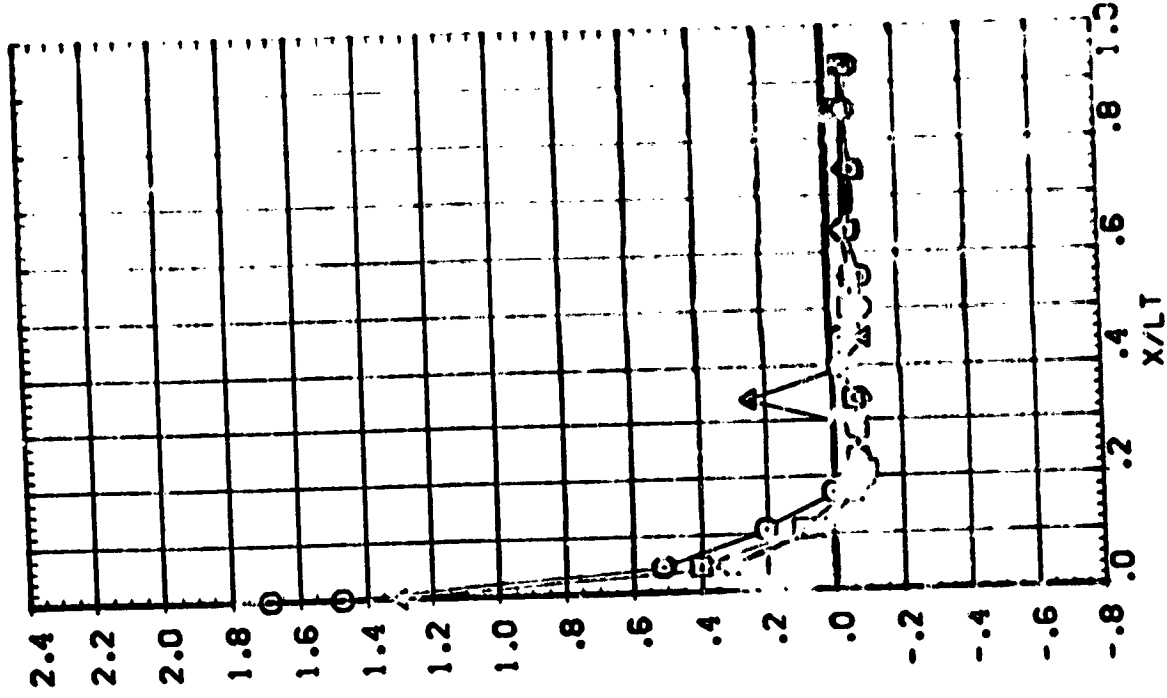
AVES 87-707 :A8 C2A - S3 - 19 EXTERNAL TANK

PARAMETER VALUES
 .000 .000 .000 .000
 .000 .000 .000 .000
 .000 .000 .000 .000

ALPHAT
 RUDDER
 RUDDLR

SYMBOL
 ○ ○ ○ △

SECT 35.11 4.45C 3.502
 8.85C



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

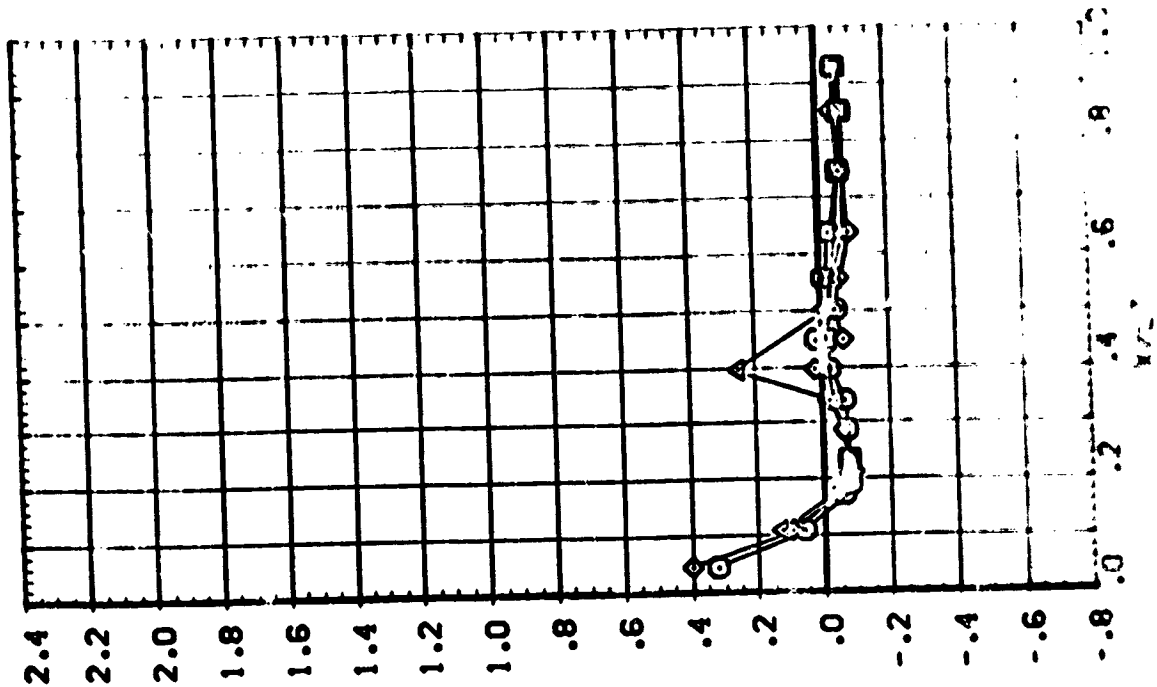
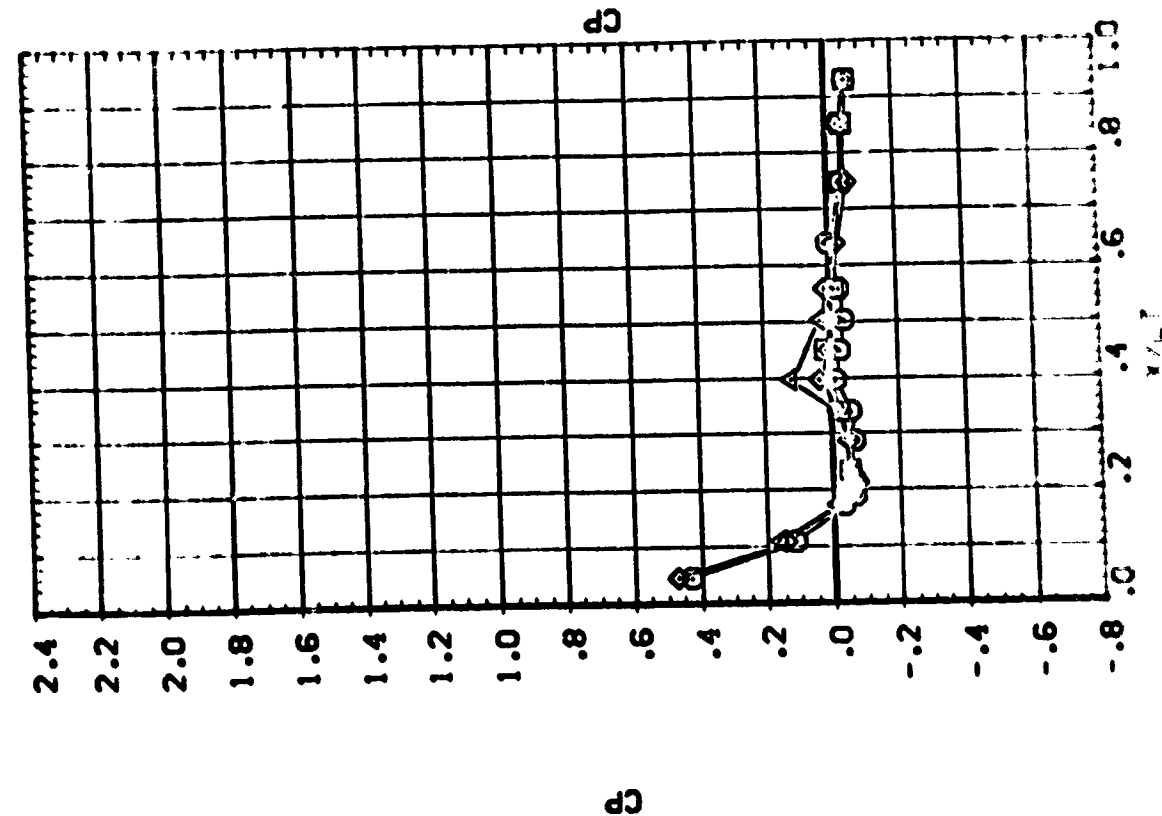
AVES 87-707 :A9 C2A - S3 - 9 EXTERNAL TANK (RBN'06)

SWSC
0
0
0

BEAT WSC
4.45C 3.532
0.85C

PARAMETRIC VALUES
ALPHA
RUEER
RUEFLR

.500
.500
.500



EXTERNAL DISPOSITION OF EXTERNAL TANK PRESSURES

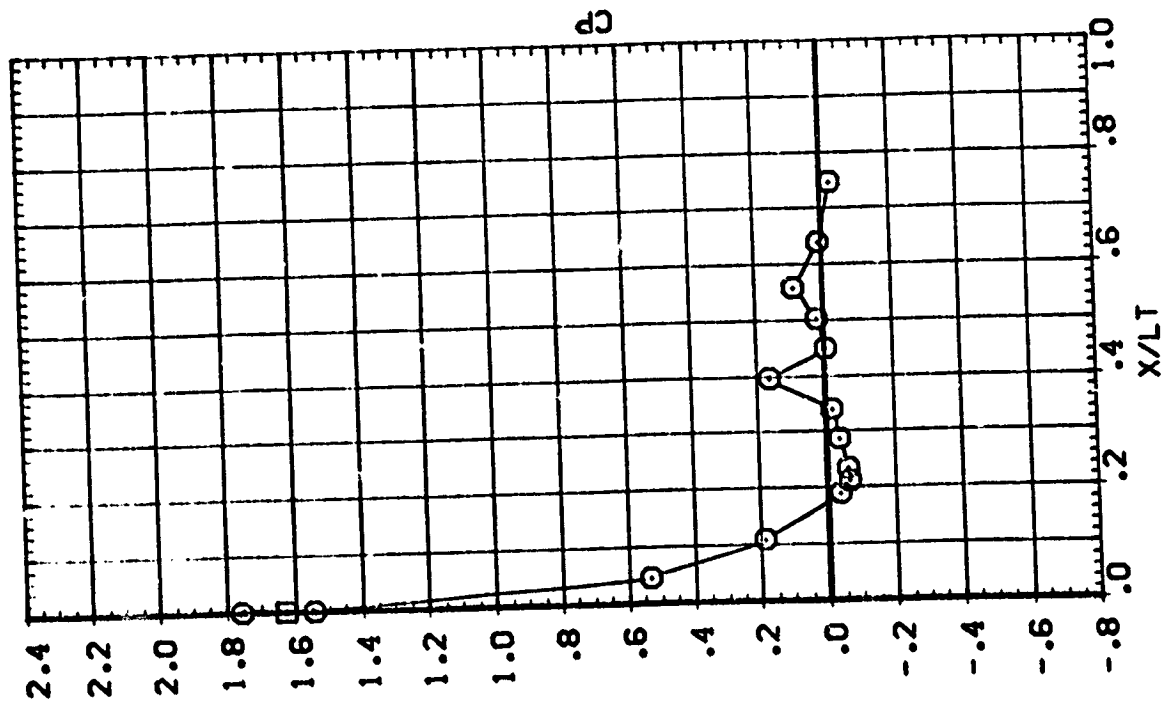
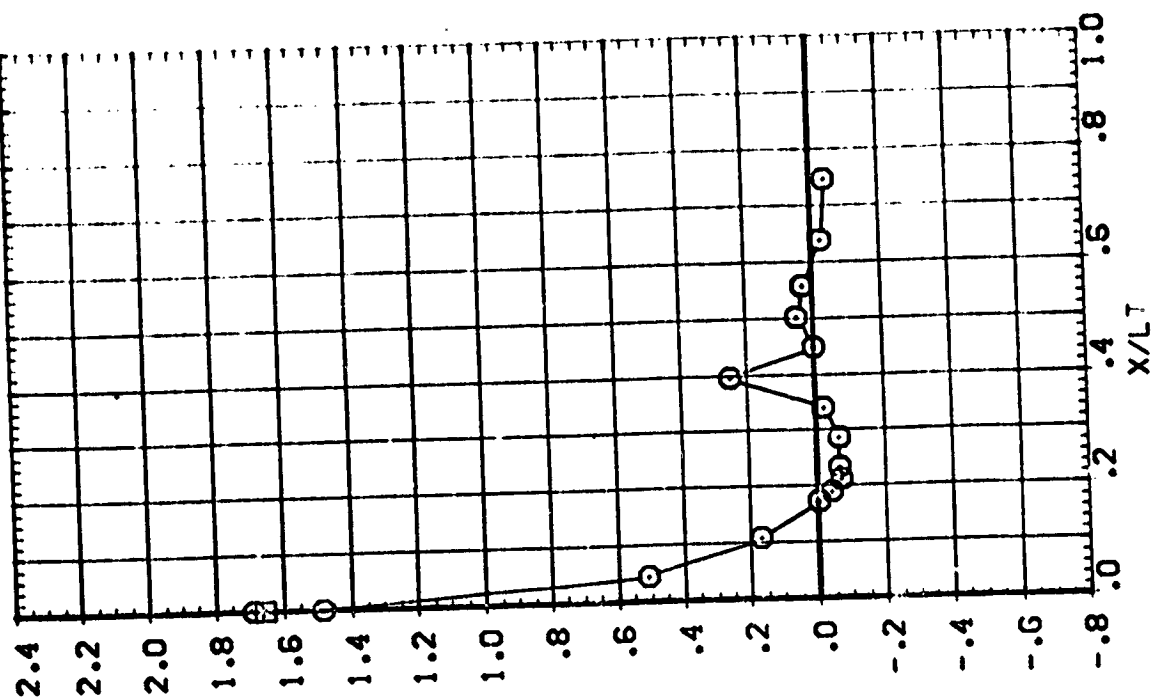
(RBNT06)

AVES 87-707 :A9 C2A + S3 + '9 EXTERNAL TANK

SYSC-
(01)

BL: BEAT YACH
:80.000 4.450 3.502
770.000 8.850

PARAMETRIC VALUES
ALPHAT .000 09911C .500
RUDDER .000 ELEVON .000
RUOFLR .000

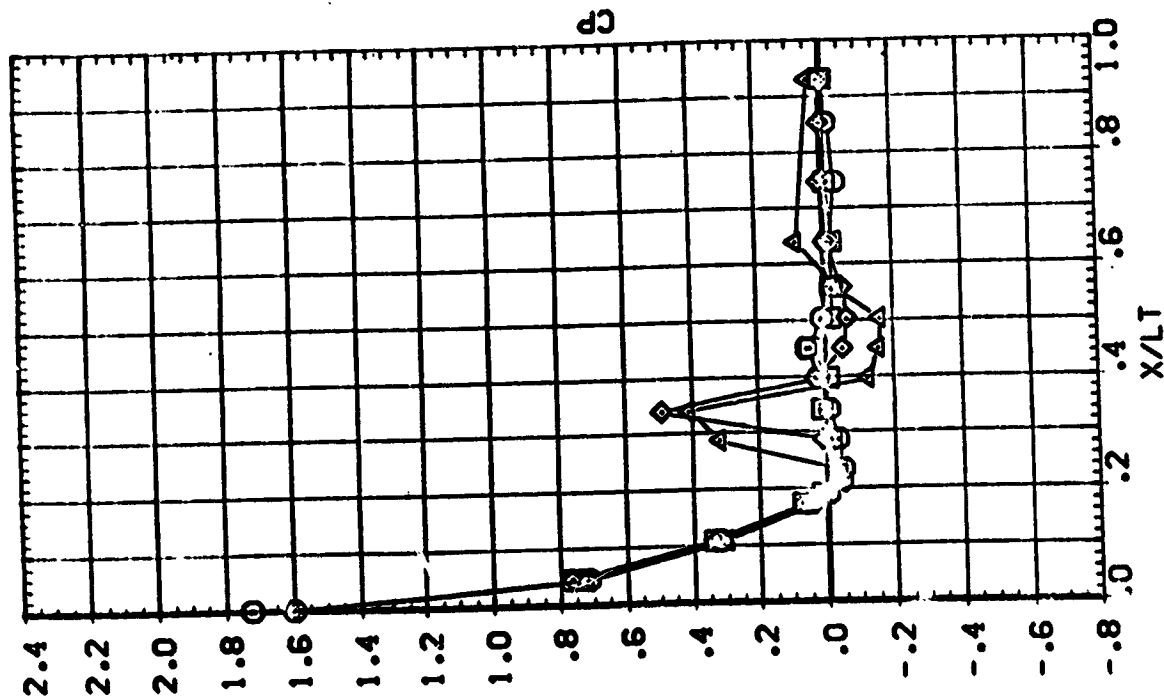
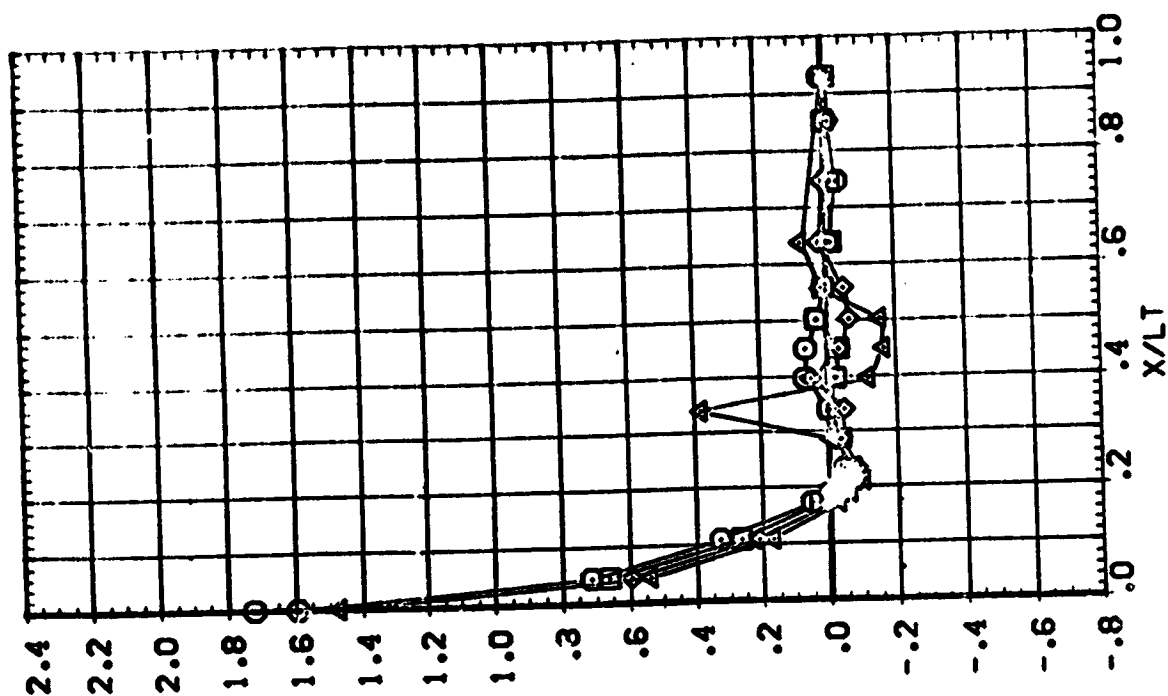


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

08-03

BETA	MACH
-4.190	2.498
2.173	

PARAMETRIC VALUES	
ORIGIN	1.000
ELEV	.000
	.000

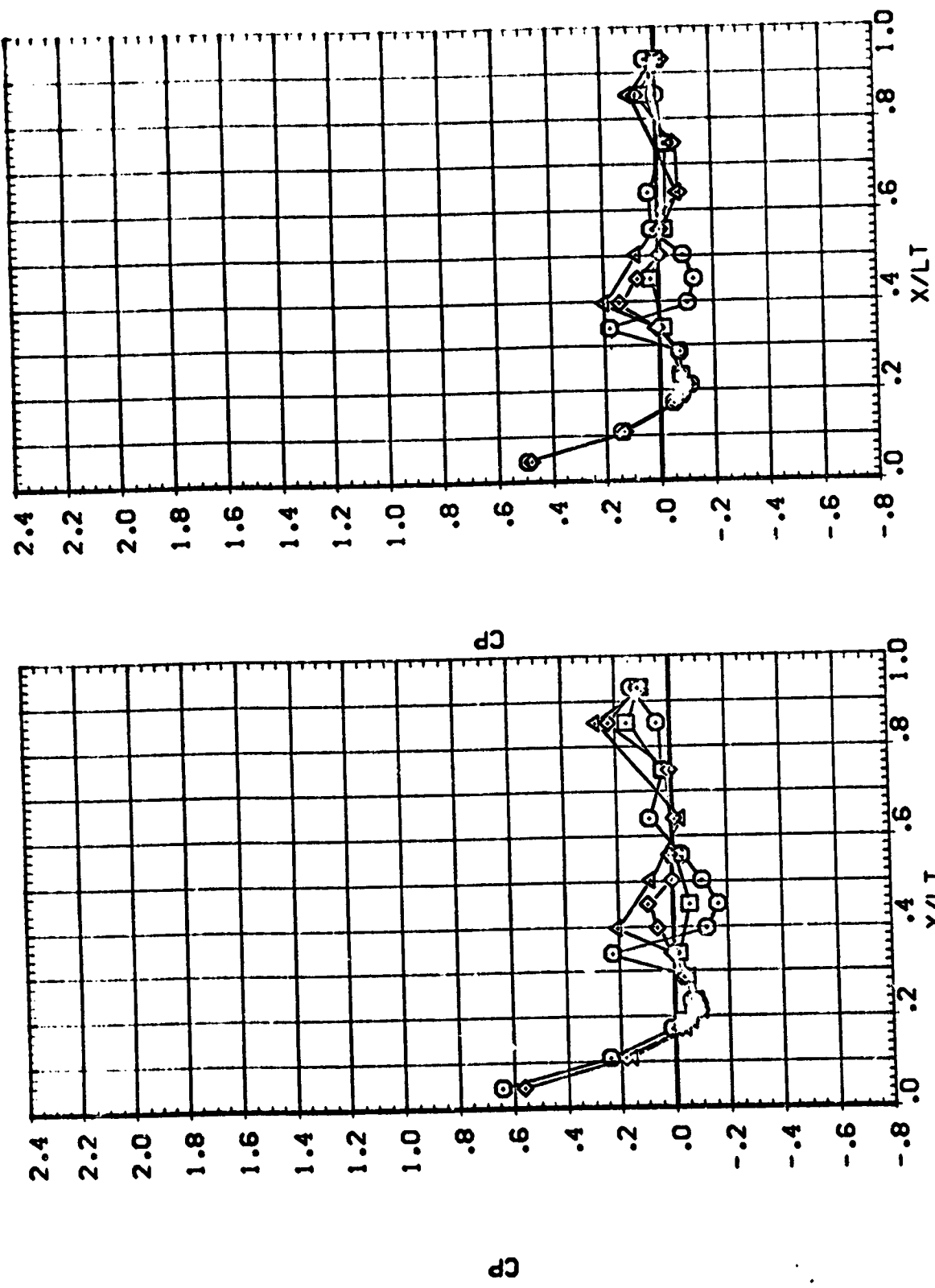


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

SVGC
P-1
:70.000
:35.000
:50.000
:65.000

BE "A" VAC
-4.190 2.498
2.170

PARAMETRIC VALUES
ALPHAT 4.000 598.15
RUDDER .000 ELEV 5
RUDFLR .000



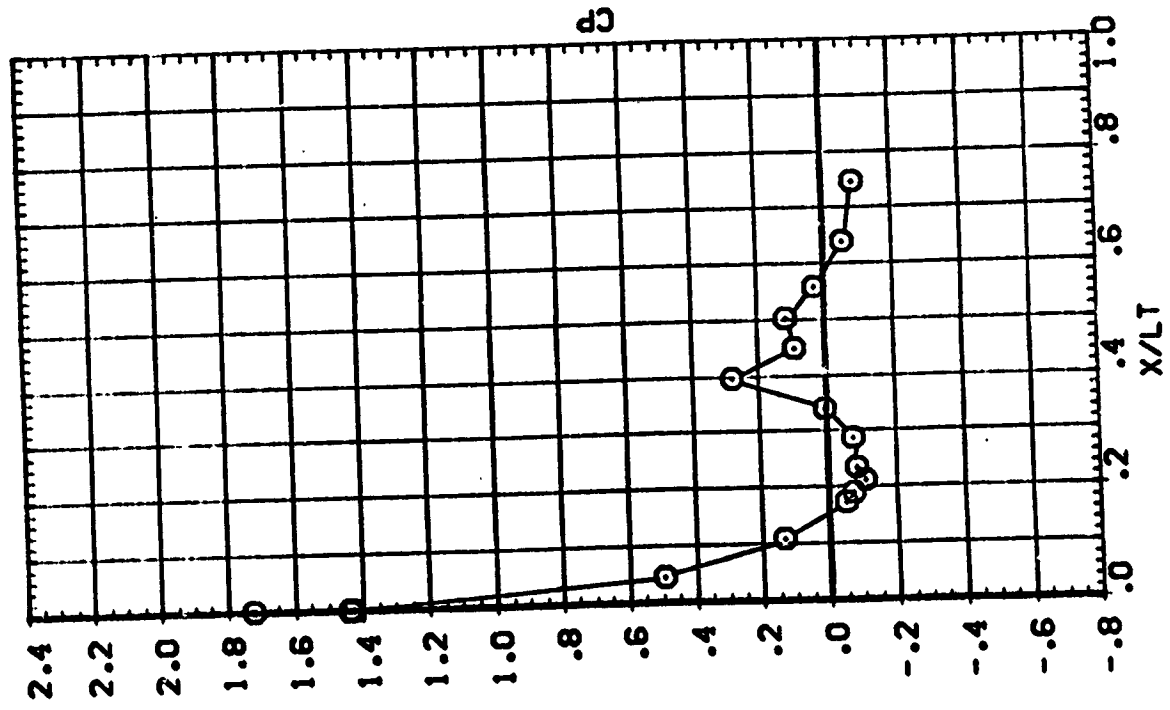
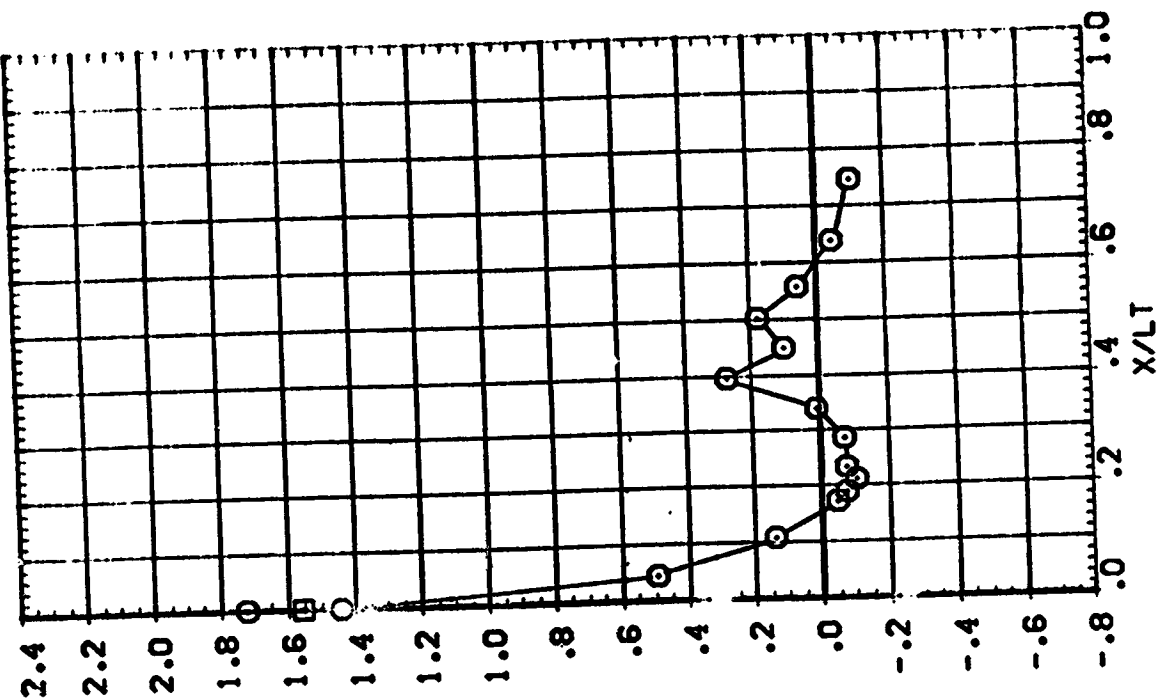
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AVES 87-707 :A9 32A + S3 + T9 EXTERNAL TANK (RBNT08)

SYNCH
O

PA: 80.000
770.000
BETA: -4.190
2.170
MAC: 2.498

PARAMETRIC VALUES
ALPHA: 4.000
RUGER .000
RUGER .000
ELEV: .500
ELEV: .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

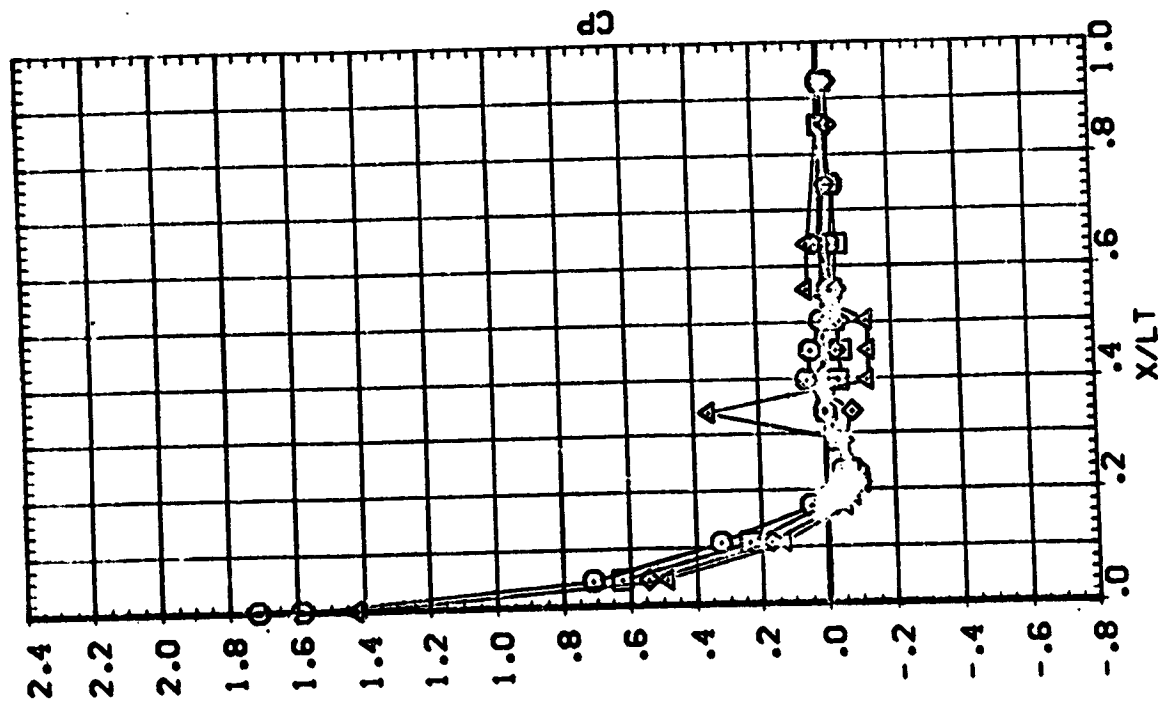
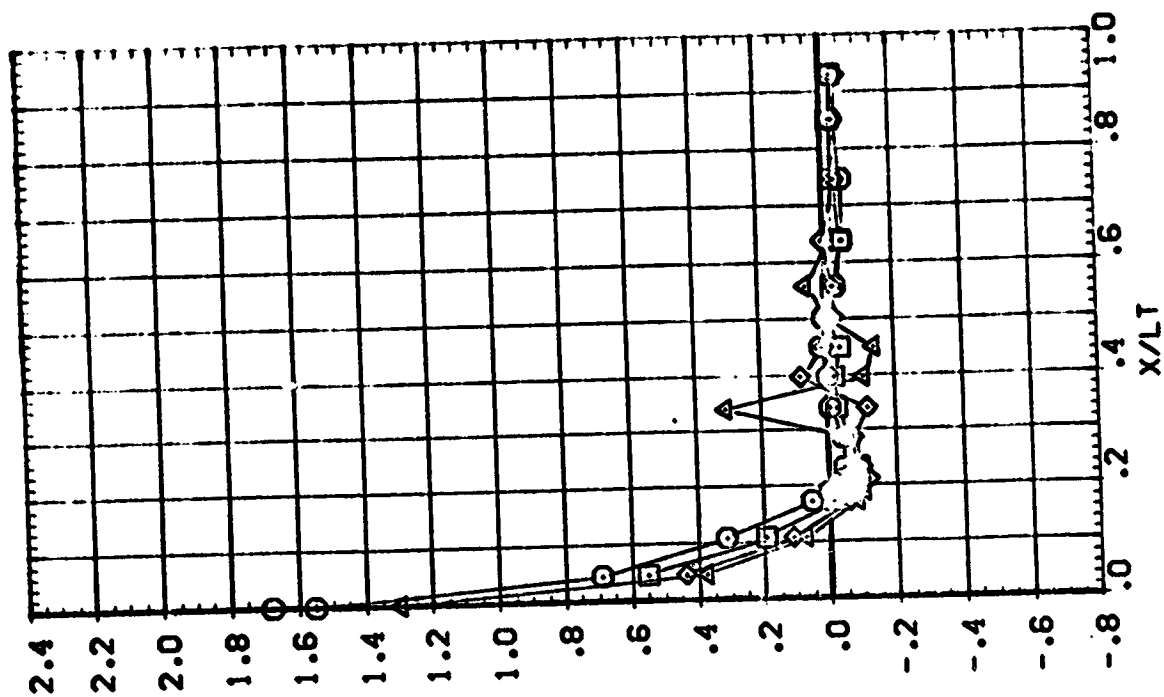
U.S. 67-707 1A 2A - S3 - 9 EXTERNAL TANK

PARAMETRIC VALUES	
1.000	998.12
.000	ELEVATION
.000	
.000	

ALMA
ADDER
ADDER

BEAT	WAC
4.300	2.498
0.550	

0-10-68



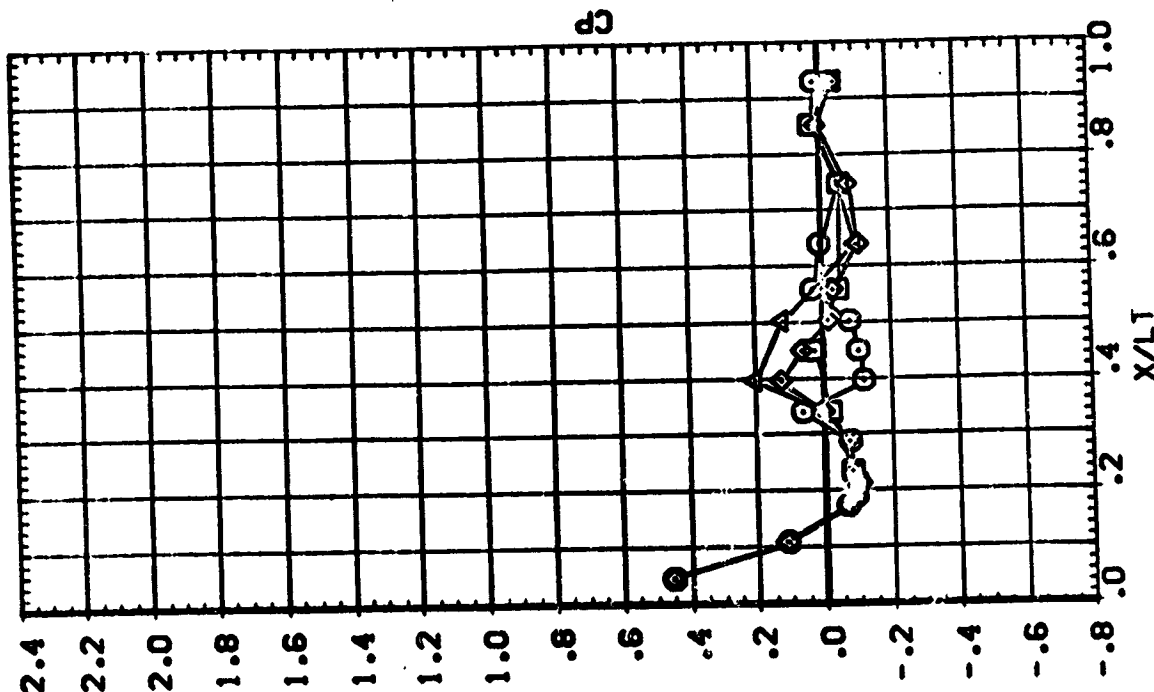
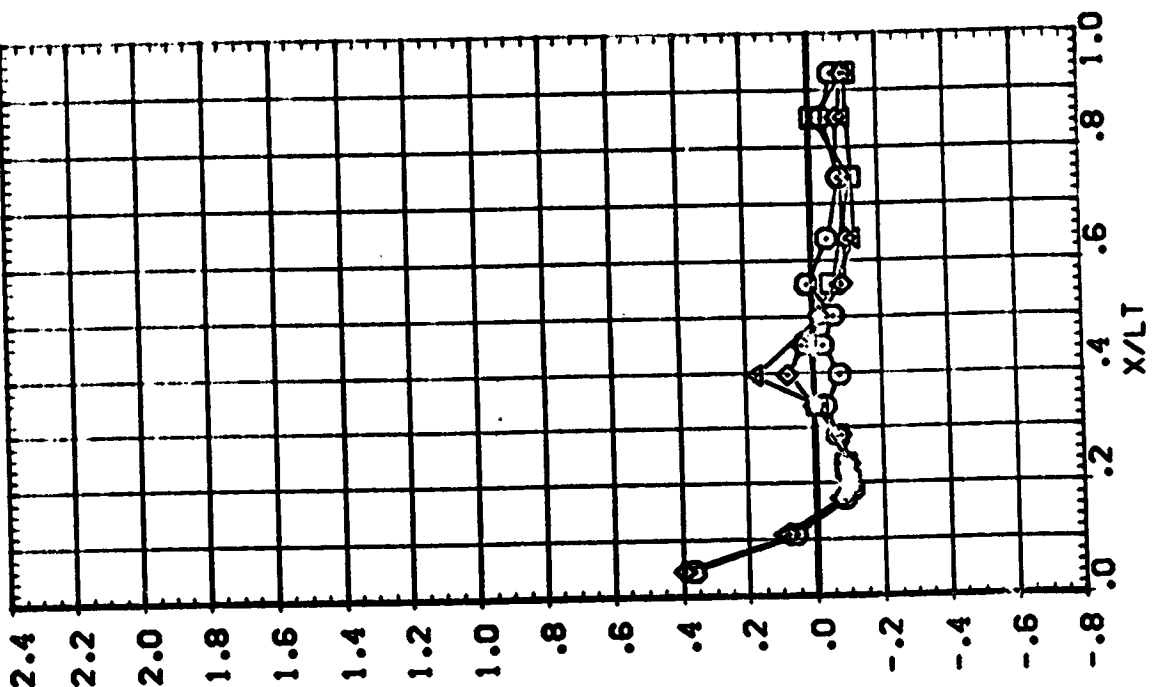
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AVES 87-707 1A9 02A - S3 + T9 EXTERNAL TANK (R3N-08)

S-100
170.000
135.000
150.000
165.000

PHI: 170.000
BETAT 4.300
PACH 2.498
8.550

PARAMETRIC VALUES
ALPHA: 4.000
R-DOER .000
R-DOER .000
ELEVEN .500
ELEVEN .000

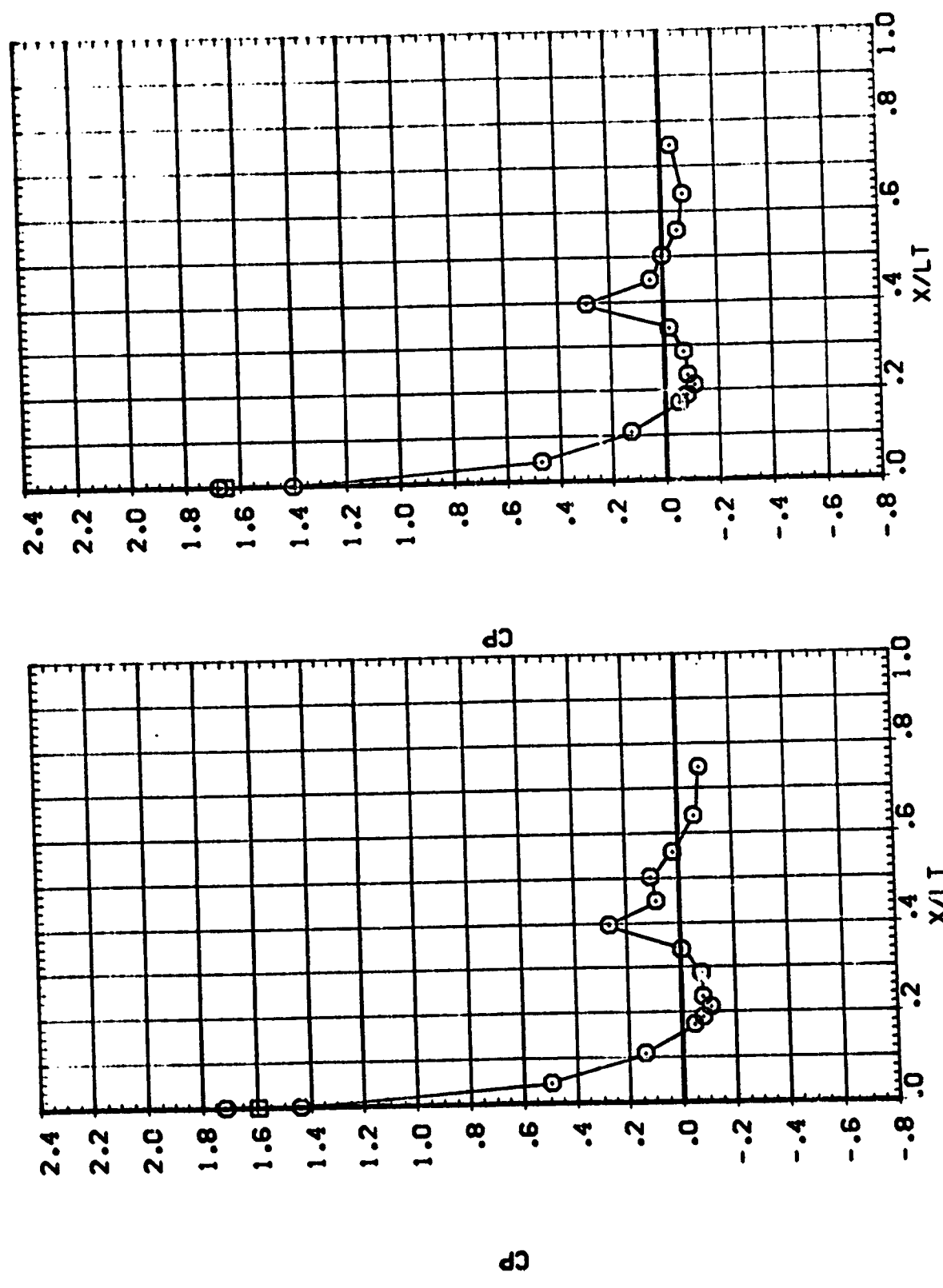


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

(RBNT08)

AVES 87-707 :A9 32A + S3 + '9 EXTERNAL TANK

SYSC	IN:	SE" A"	MACH	PARAMETRIC VALUES
0.1	180.000	4.300	2.498	ALPHAT 4.000
	770.000	8.550		RUDER .000
				RUDFLR .000
				598.12
				ELEV 5.000



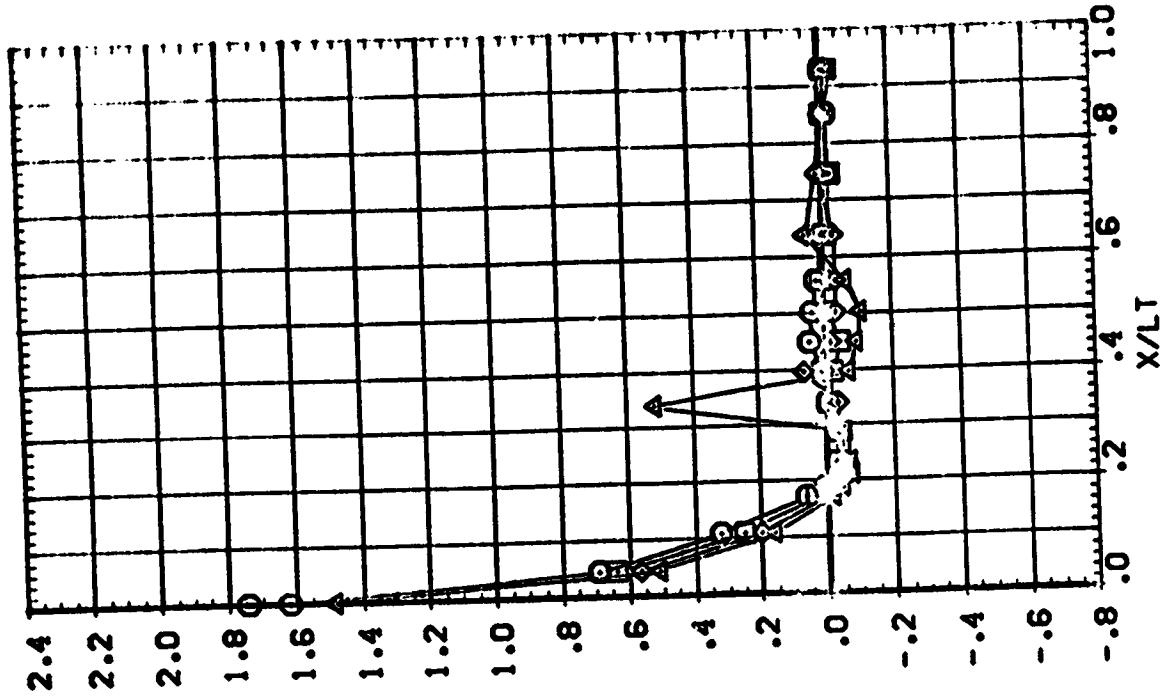
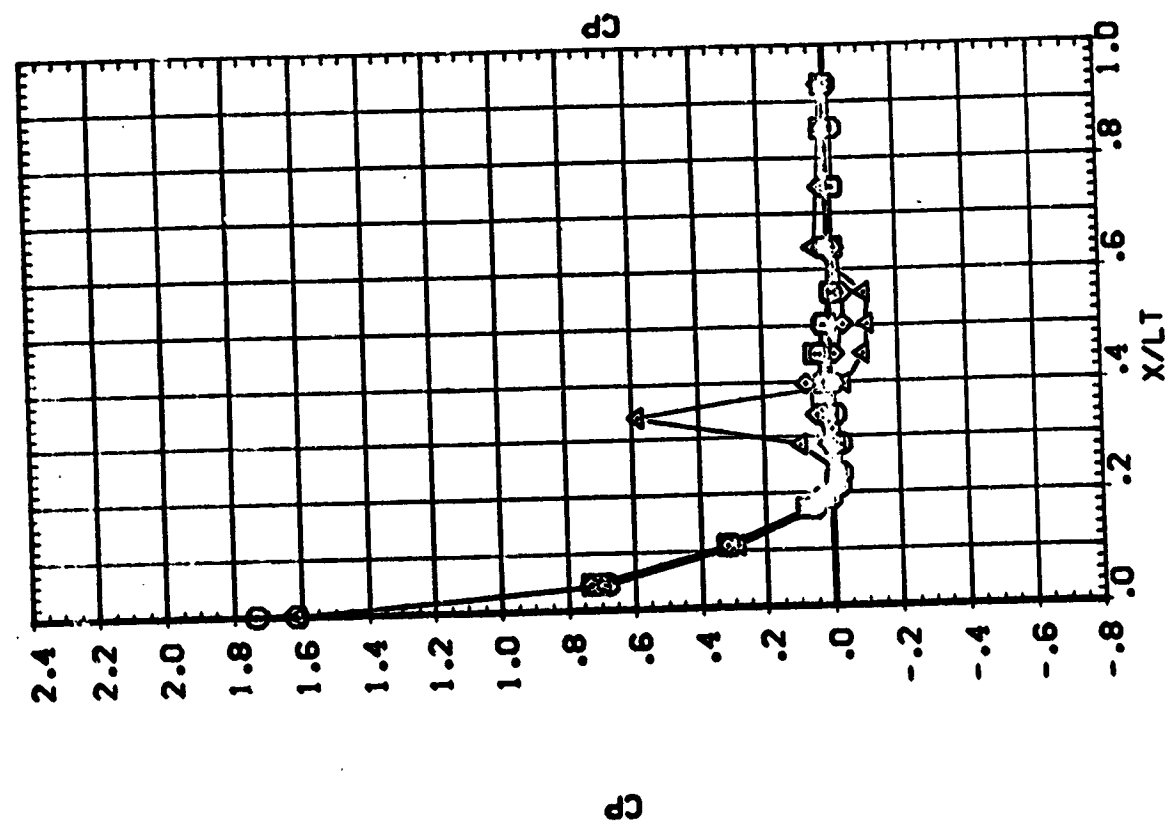
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AVES 87-707 :A9 C2A - S3 - 19 EXTERNAL TANK (RBNT08)

SYSC
P-1
0.000
30.000
60.000
90.000

BEAT MACH
-4.260 2.999
2.210

PARAMETRIC VALUES
ALPHAT 4.000
RUDDER .000
RUJFLR .000
CRBINC .000
ELEVON .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

(R8VTC8)

AVES 87-707 :A9 C2A - S3 - '9 EXTERNAL TANK

SYSC-
010000
010000
010000

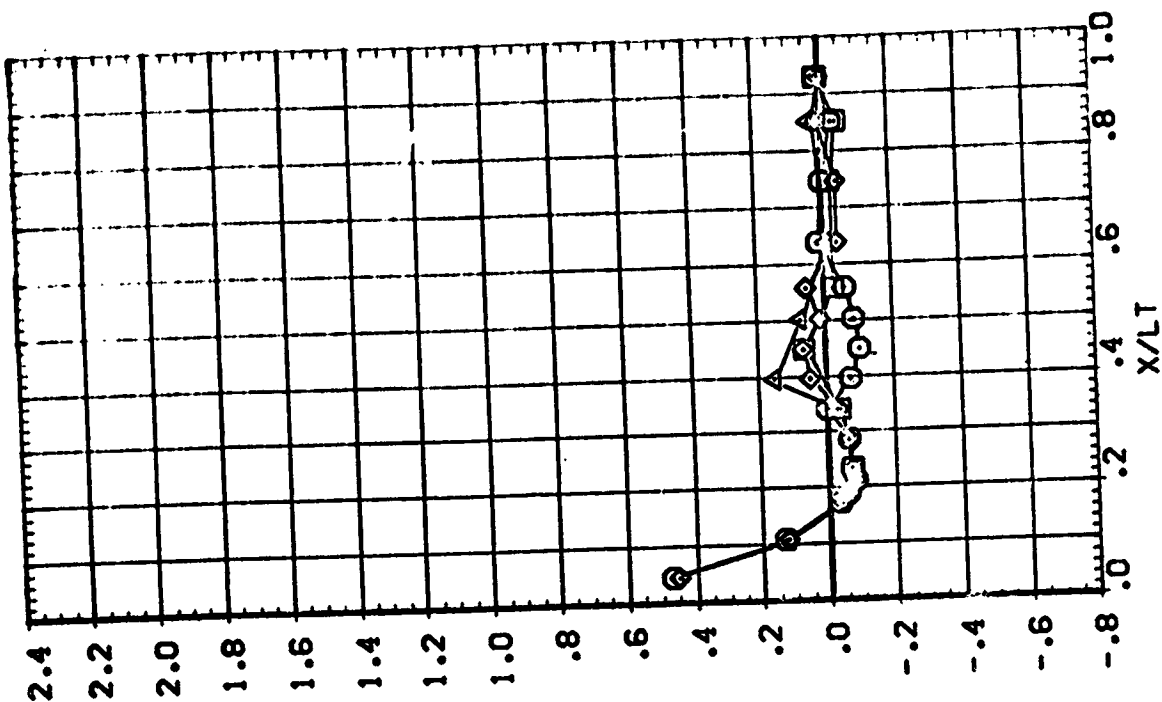
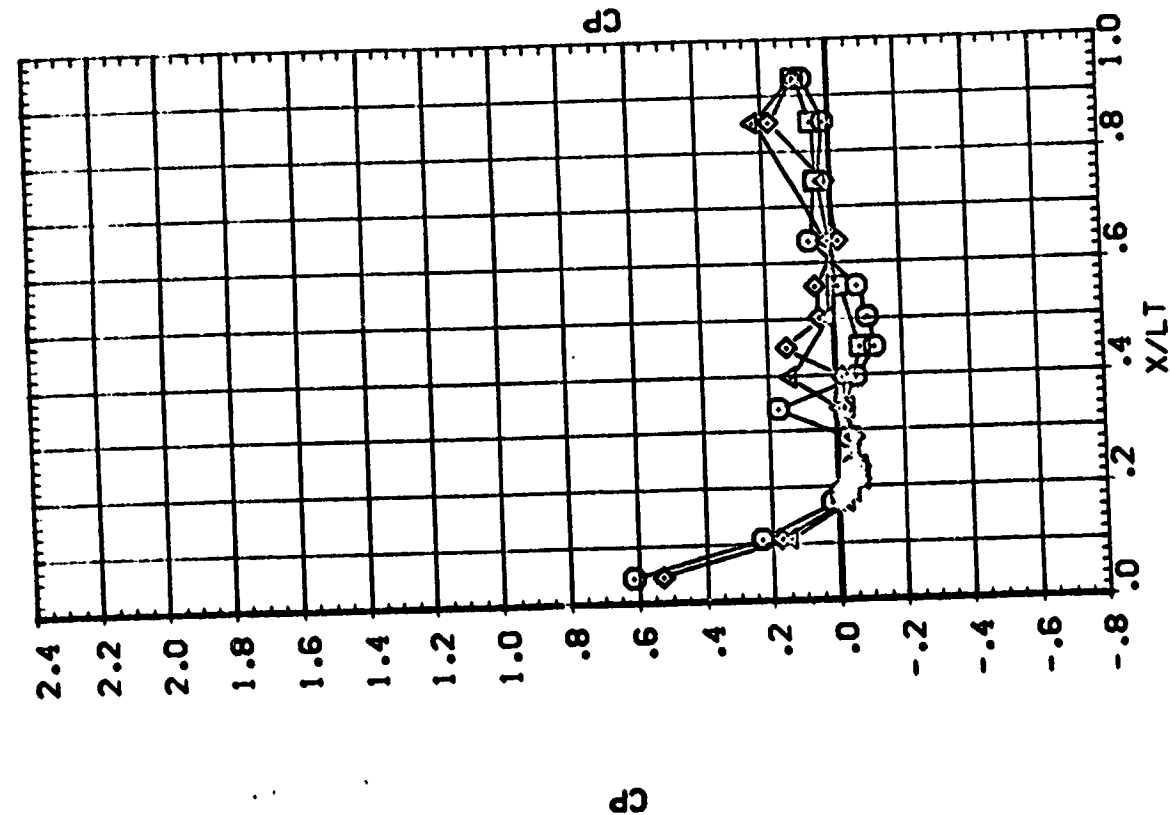
PAI
:20.000
:35.000
:50.000
:65.000

BETA:
-4.760
2.210

WACH
7.999

ALPHAT
RJOER
RJOFLR

PARAMETRIC VALUES
4.000 0.000 0.000
0.000 0.000 0.000
0.000 0.000 0.000

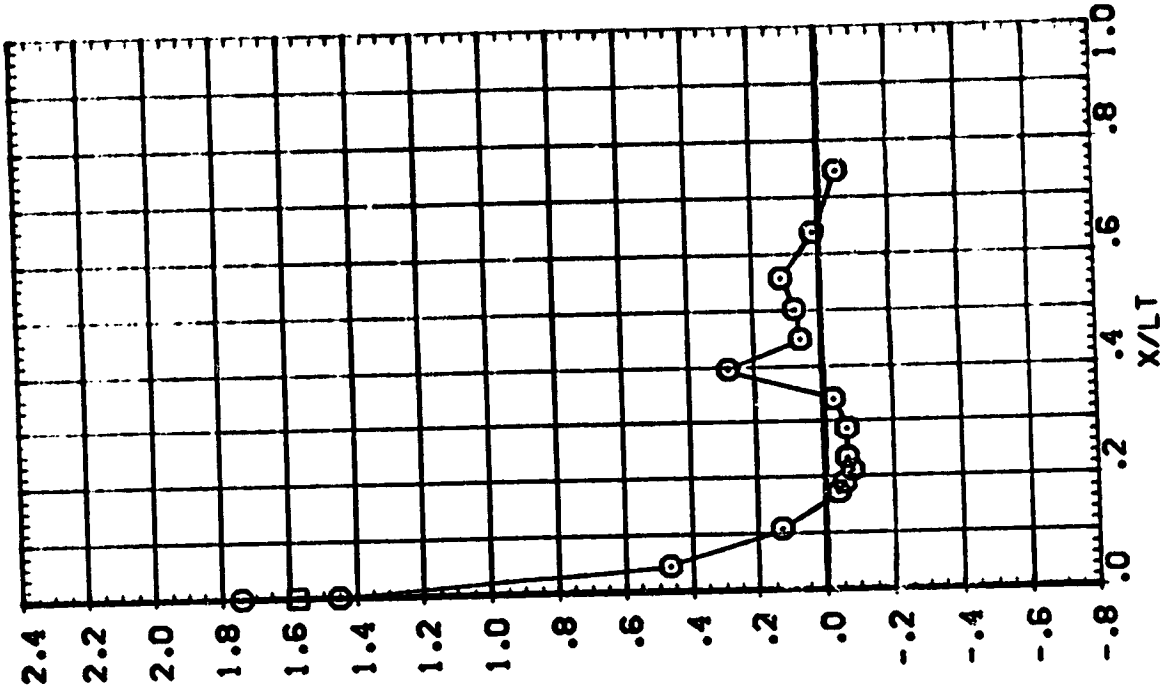
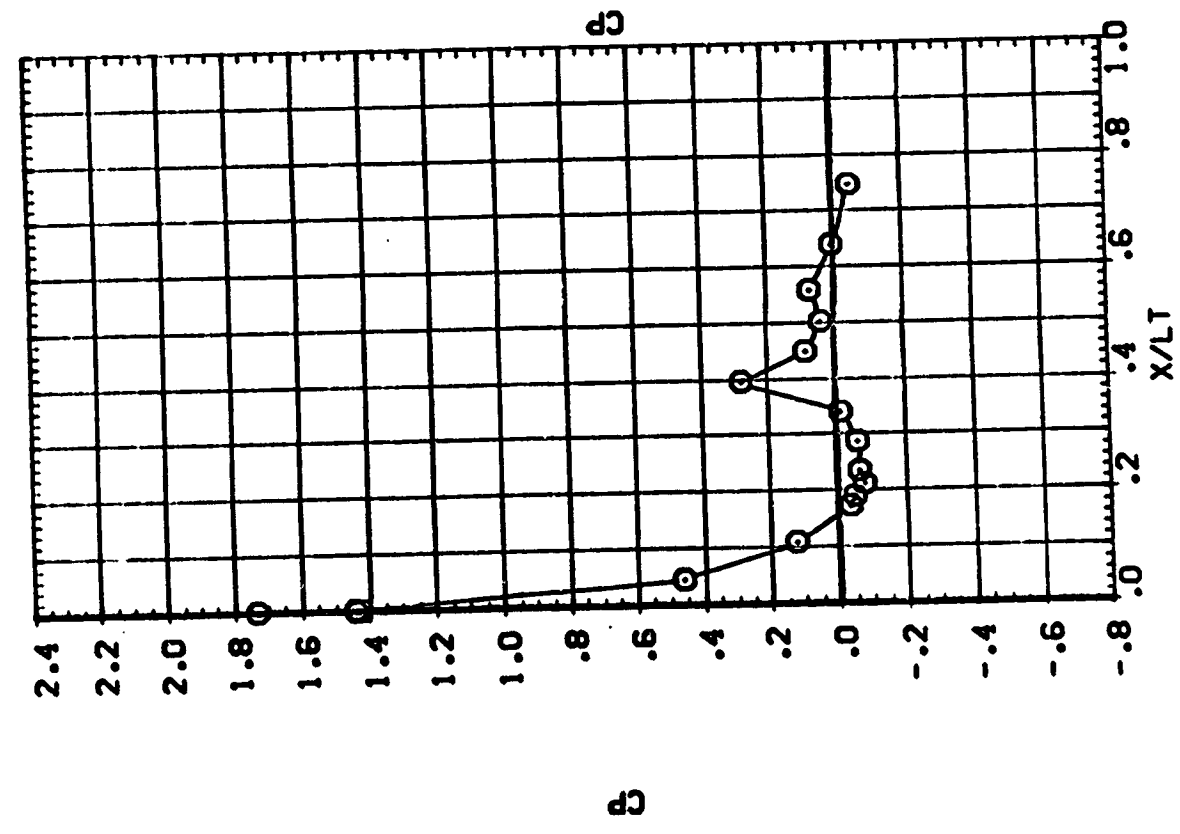


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AVES 87-707 :A9 22A + S3 + '9 EXTERNAL TANK (R3N'08)

SYMBOL 180.000 770.000
 BETA -4.260 2.210
 MACH 2.999

PARAMETRIC VALUES
 ALPHA 4.000 0.000
 RUDDER .000 ELEVON .000
 RUDDER .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

(RBN'08)

AVES 87-707 :A9 C2A + S3 - 79 EXTERNAL TANK

S-3C
O
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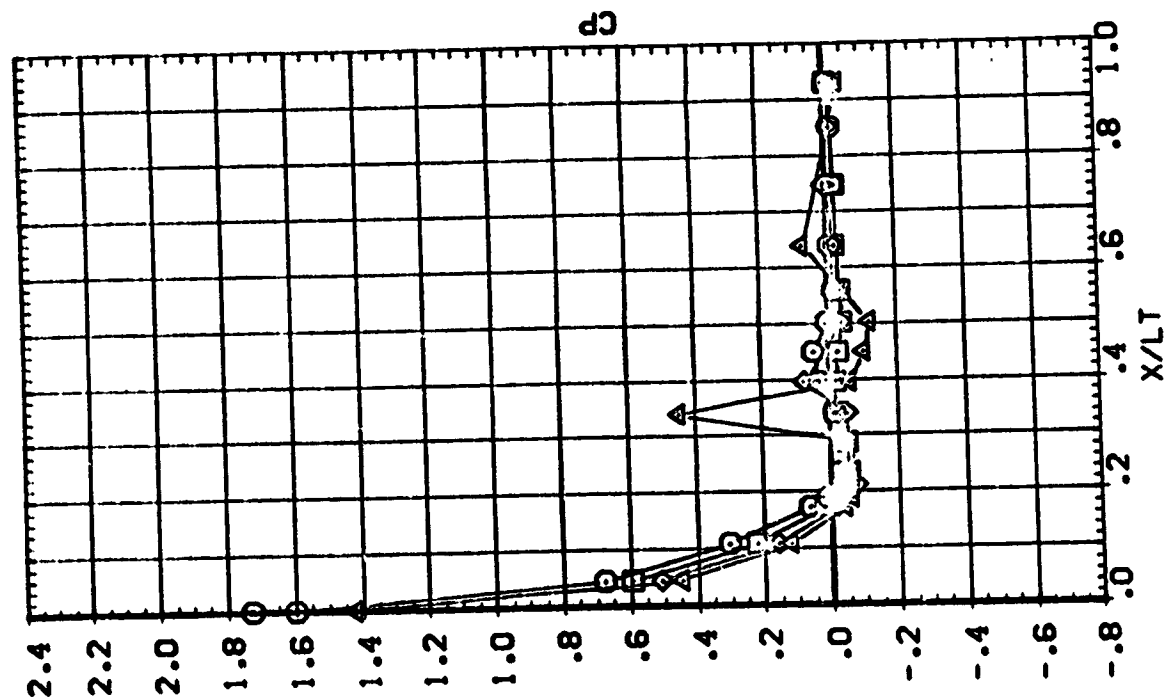
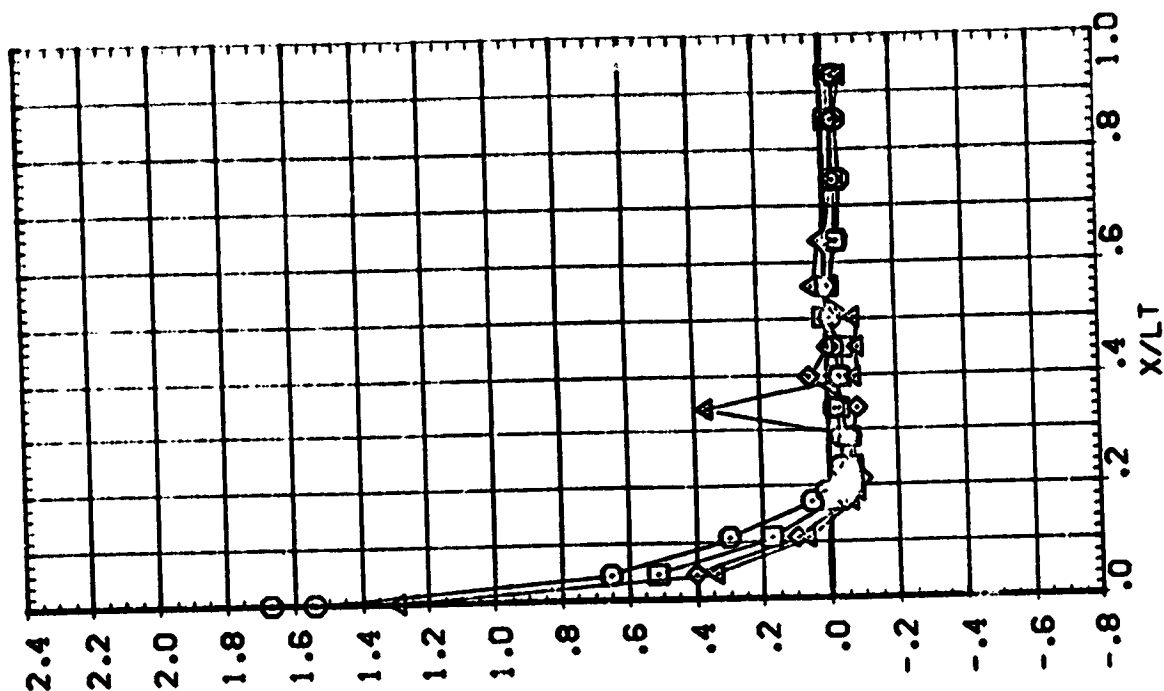
PA: .000
30.000
60.000
90.000

BETA: 4.370
8.700

MACH 2.999

PARAMETRIC VALUES

ALPHA: 4.000
RUDDER .000
ROTOR .000
ORBITAL .500
ELEVON .000



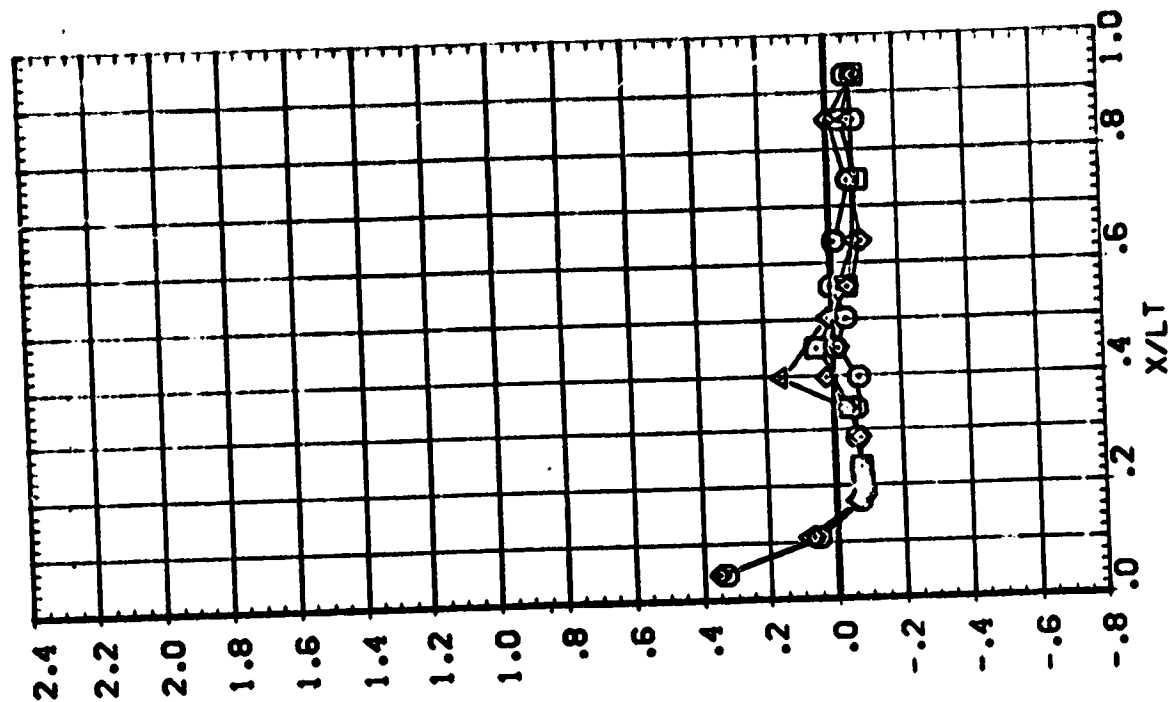
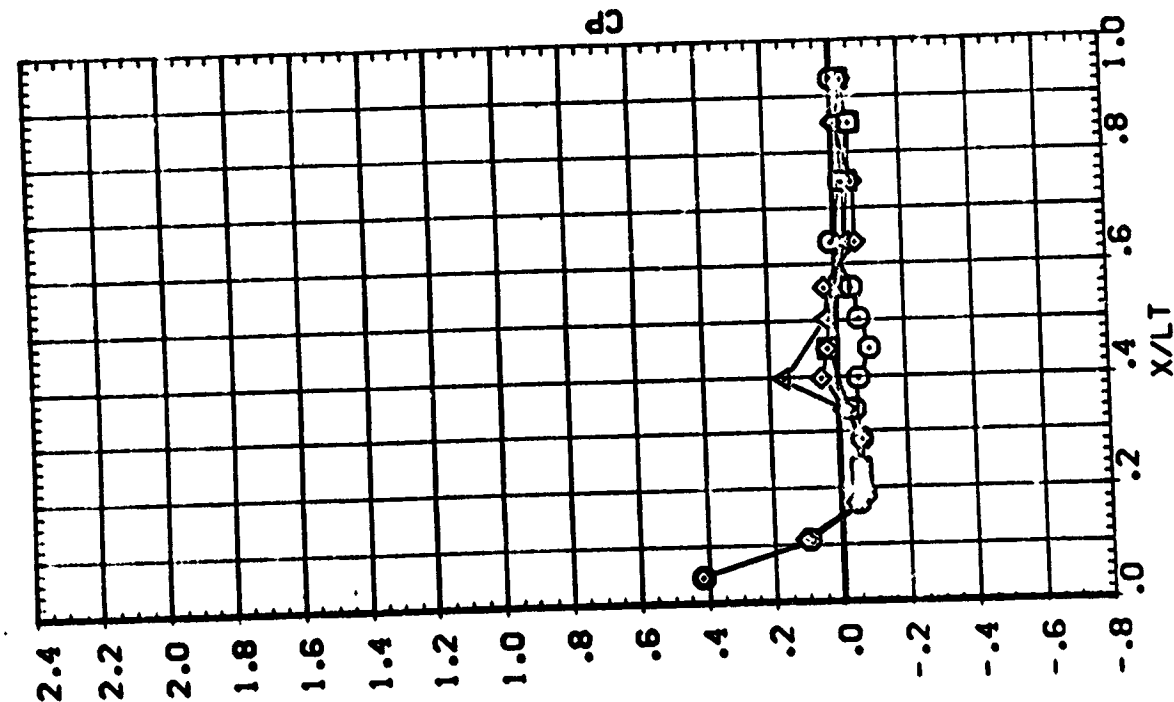
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AVES 87-707 1A9 C2A + S3 + 19 EXTERNAL TANK (RBN C8)

SYMBOL
 120.000
 135.000
 150.000
 165.000

BETAT MACH
 4.370 2.999
 8.700

PARAMETRIC VALUES
 ALPHAT 4.000
 RUDER .000
 RUDFLR .000
 ORBINC .500
 ELEVON .000

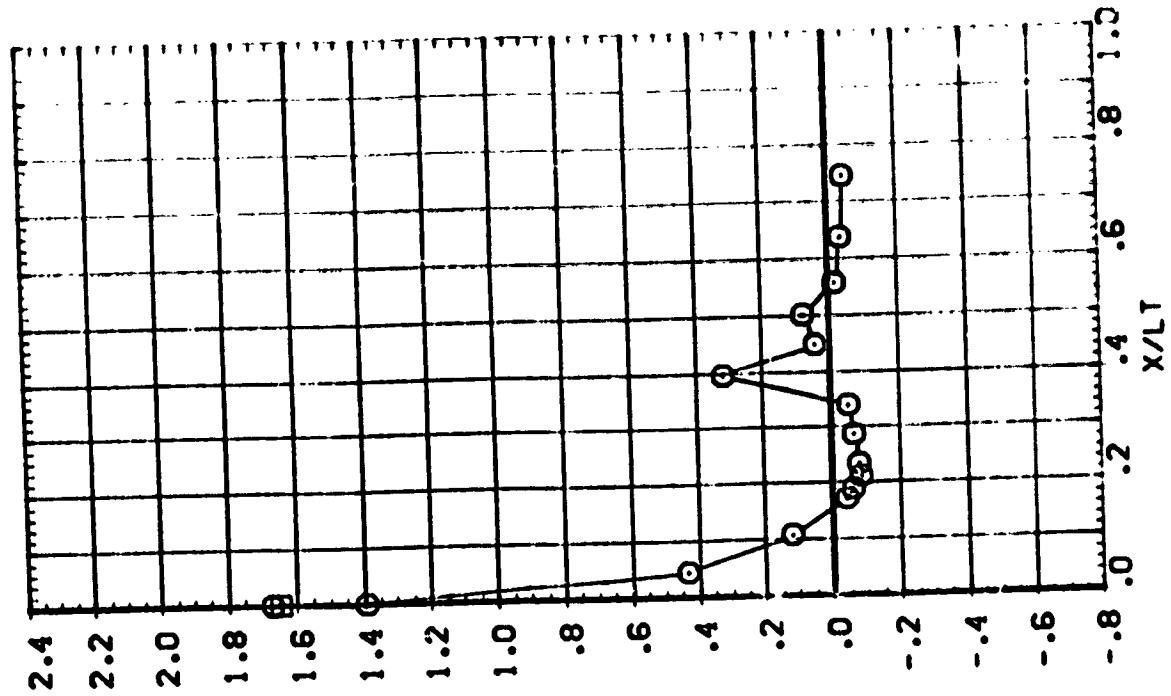
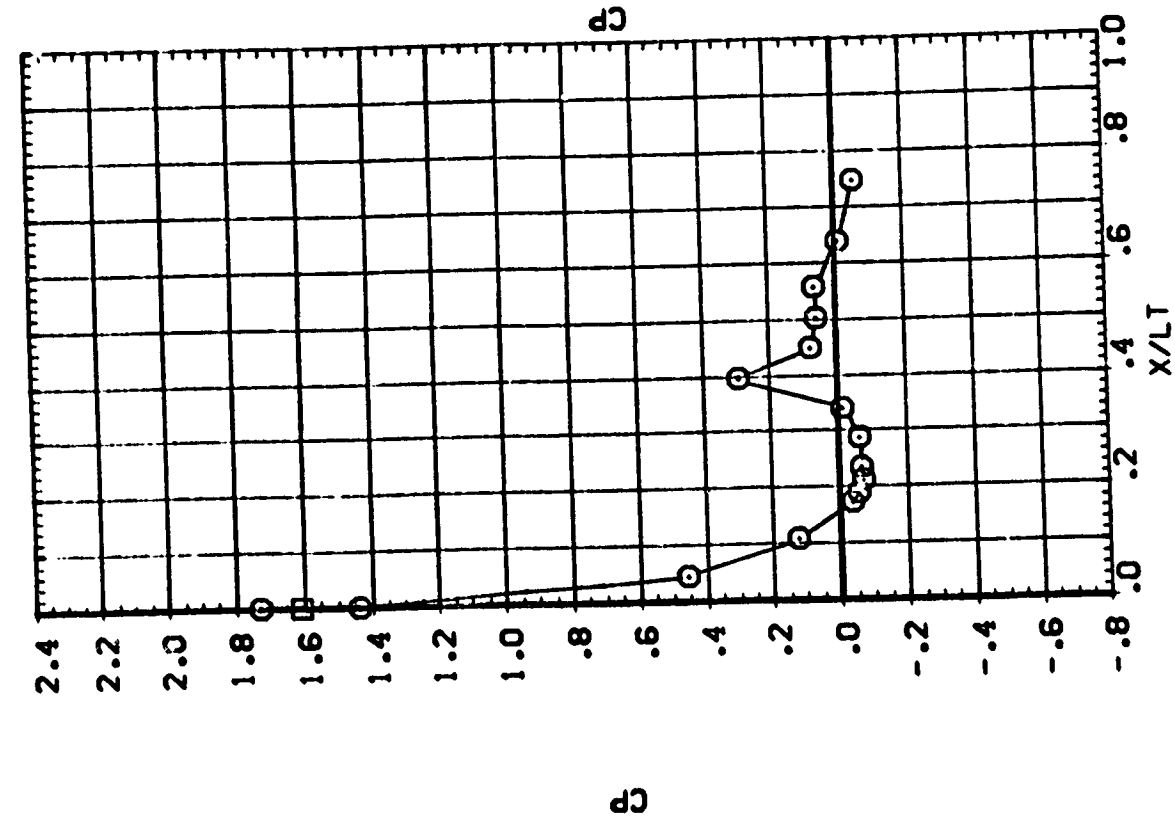


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AVES 87-707 :A9 C2A + S3 + T9 EXTERNAL TANK (RBNT08)

SYNOPSIS
 A-1: 180.000 270.000
 BETAT 4.370 9.700
 MACH 2.999

PARAMETRIC VALUES
 ALPHAT 4.000 598.110
 RDOER .000 ELEVAT .000
 RDOFLR .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

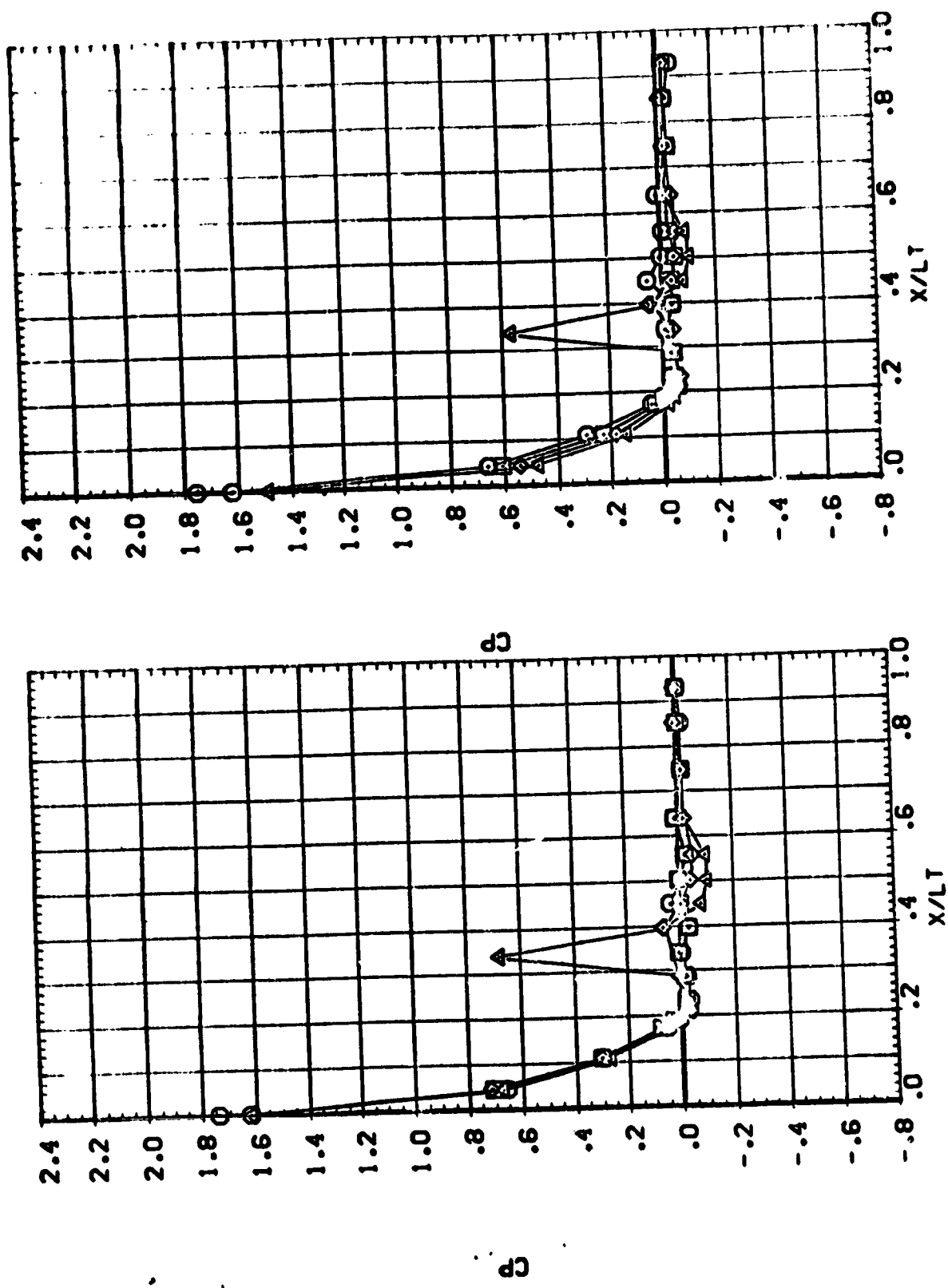
AVES 87-707 :A9 C2A - S3 - 19 EXTERNAL TANK (RBN:08)

SYNCH
 ○
 ◇
 △

BEAT WACH
 -4.330 3.502
 2.260

PARAM:200 ALJIS
 4.000 399.5
 1.000 1.000
 1.000 1.000

1.000
 1.000
 1.000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

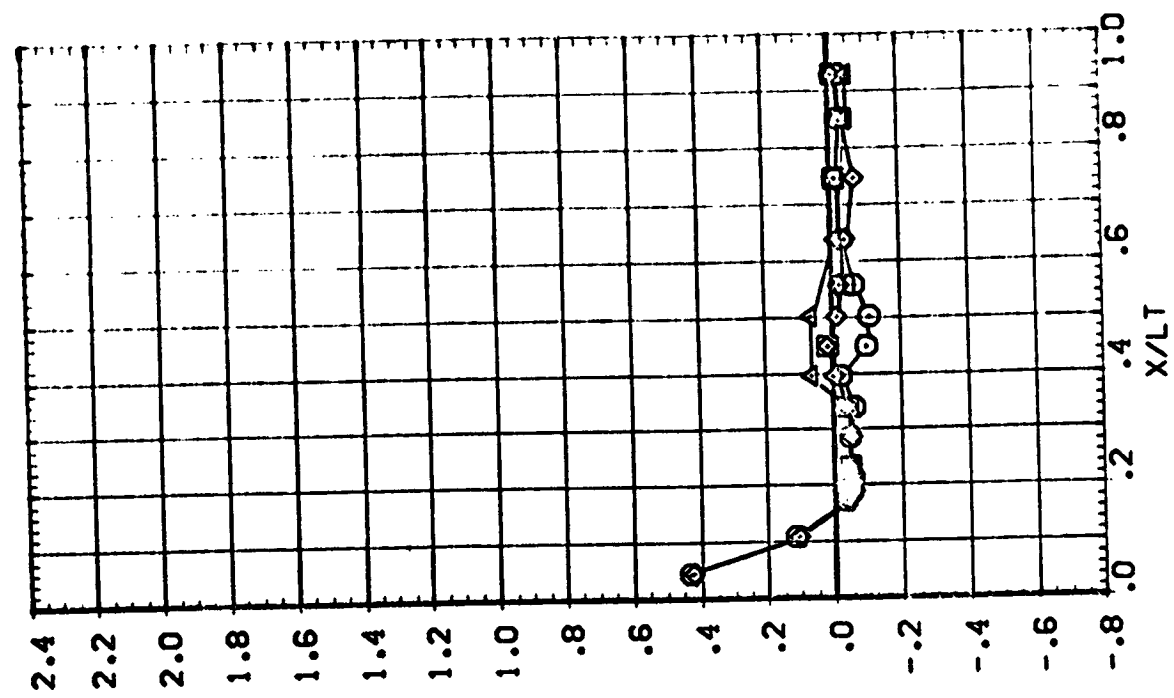
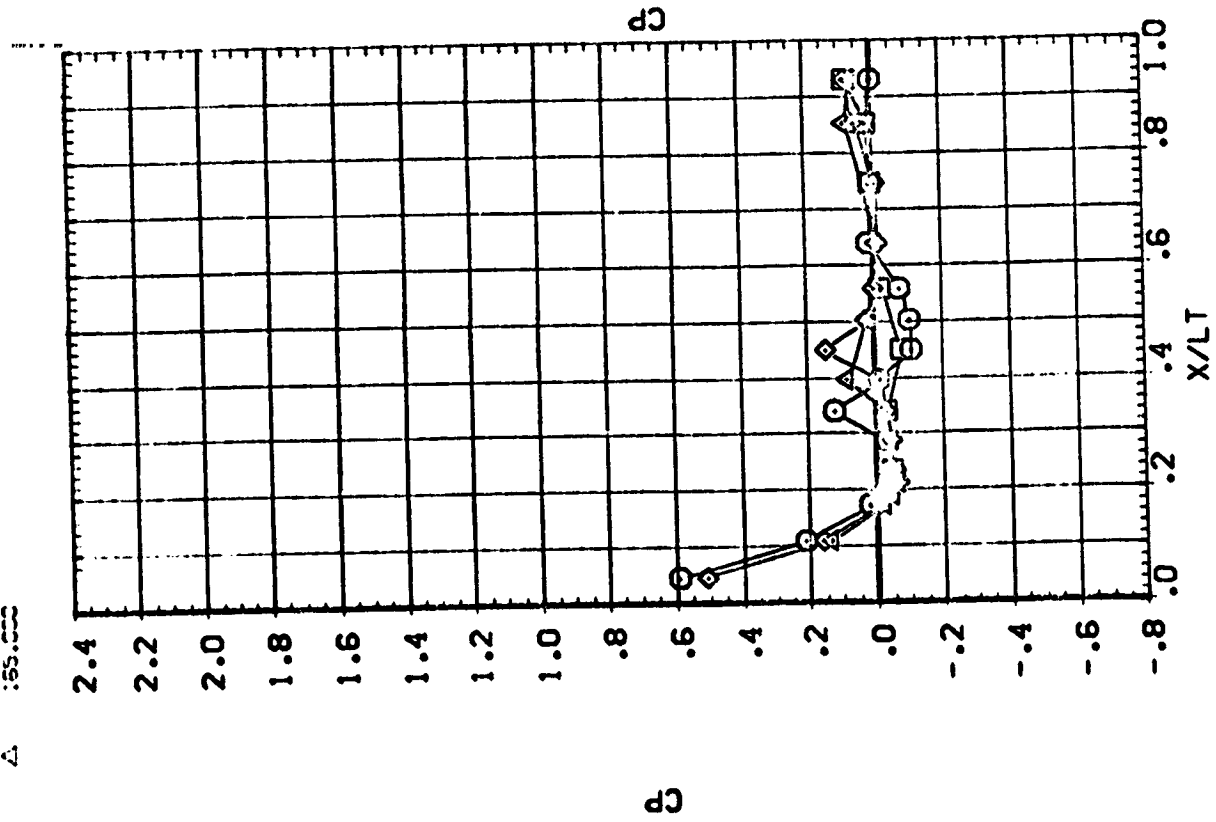
(RBNT08)

AVES 87-707 :A9 02A + S3 + '9 EXTERNAL TANK

SWBC
O
O
O
A

ALPHAT
RUDER
RUDFLR

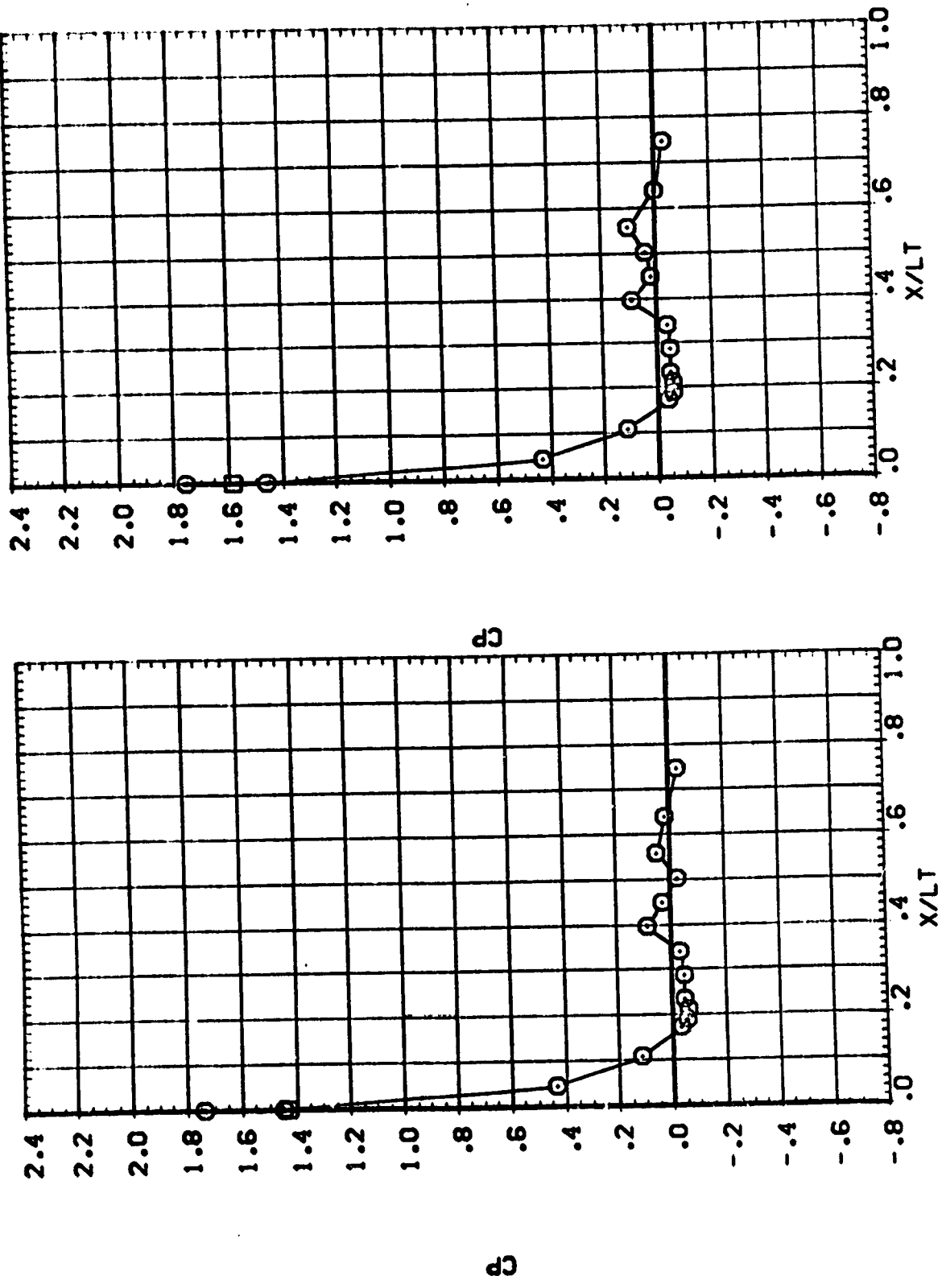
PIPING 0.12 VALVES
4.000 0.000 1.000
1.000 1.000 1.000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AVES 87-707 1A9 02A - S3 - 19 EXTERNAL TANK (RBN'08)

SYNCH	BEAT	MAC	PARAMETRIC VALUES
180.000	-4.330	3.502	ALPHAT 4.000 ORBINC .500
270.000	2.760		RJDER .000 ELEVON .000
			RJFLR .000



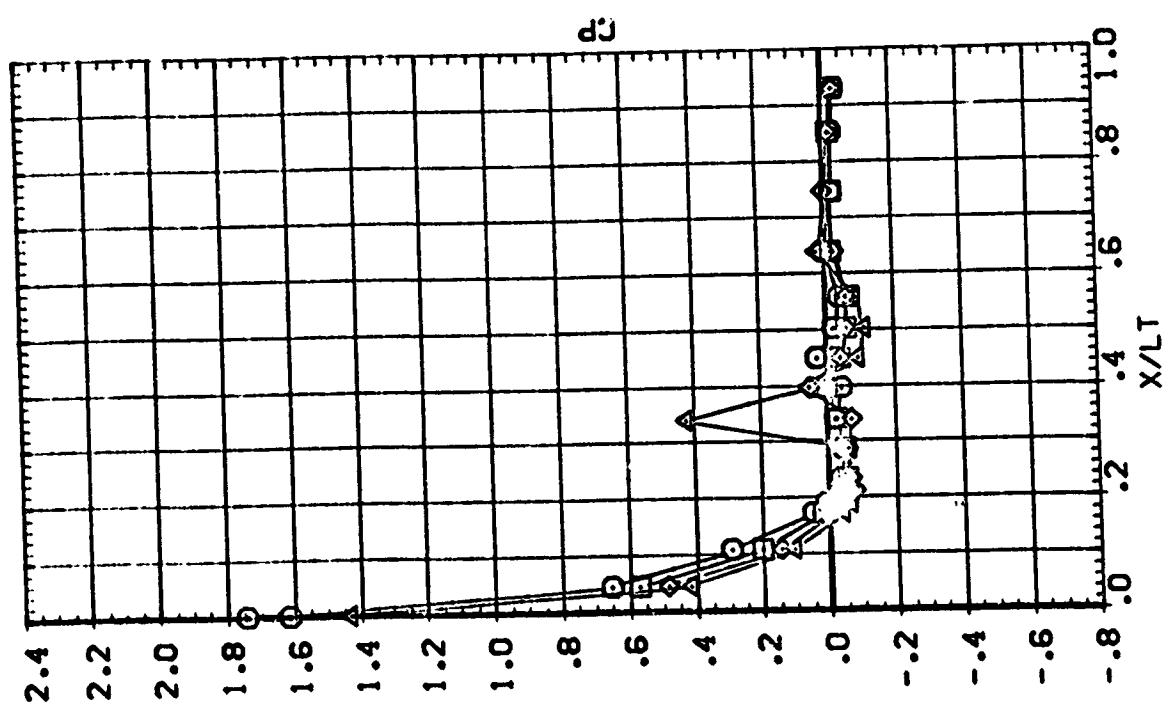
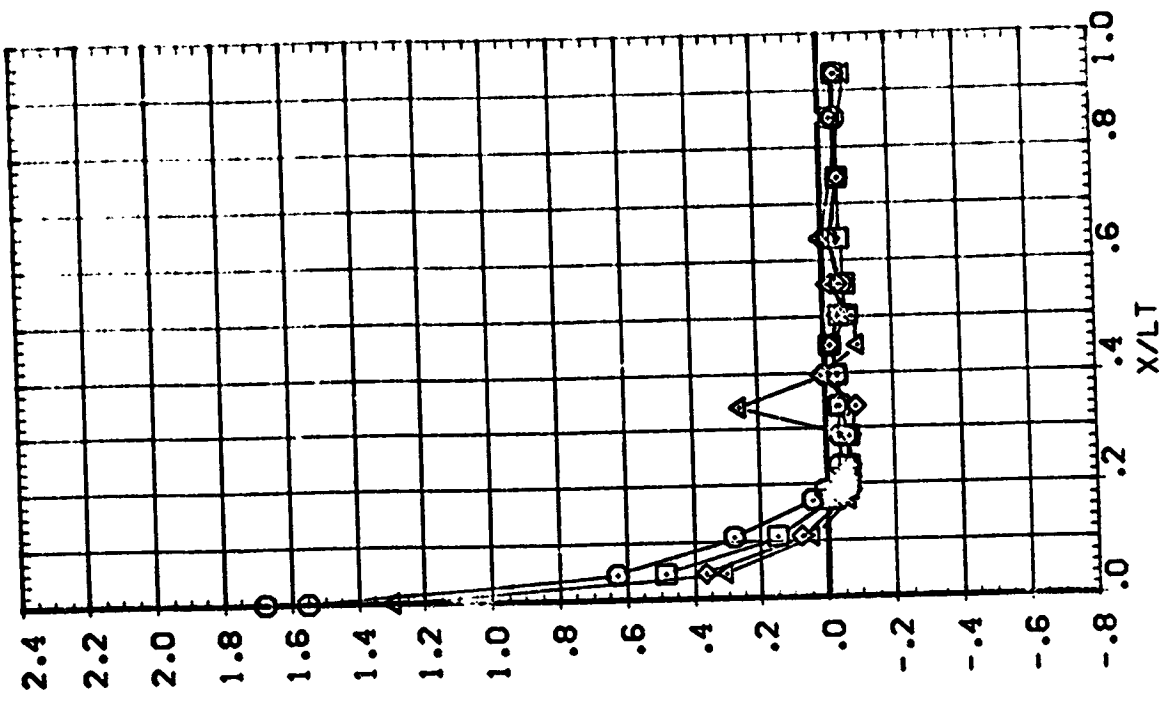
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

SYNCH
0110
0110
0110
0110
0110

DELTA: .000
30.000
60.000
90.000

BETAT MACH
4.460 3.502
8.860

PARAMETRIC VALUES
ALPHAT 4.000 59.12
RUDDER .000 ELEV
RLOFLR .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

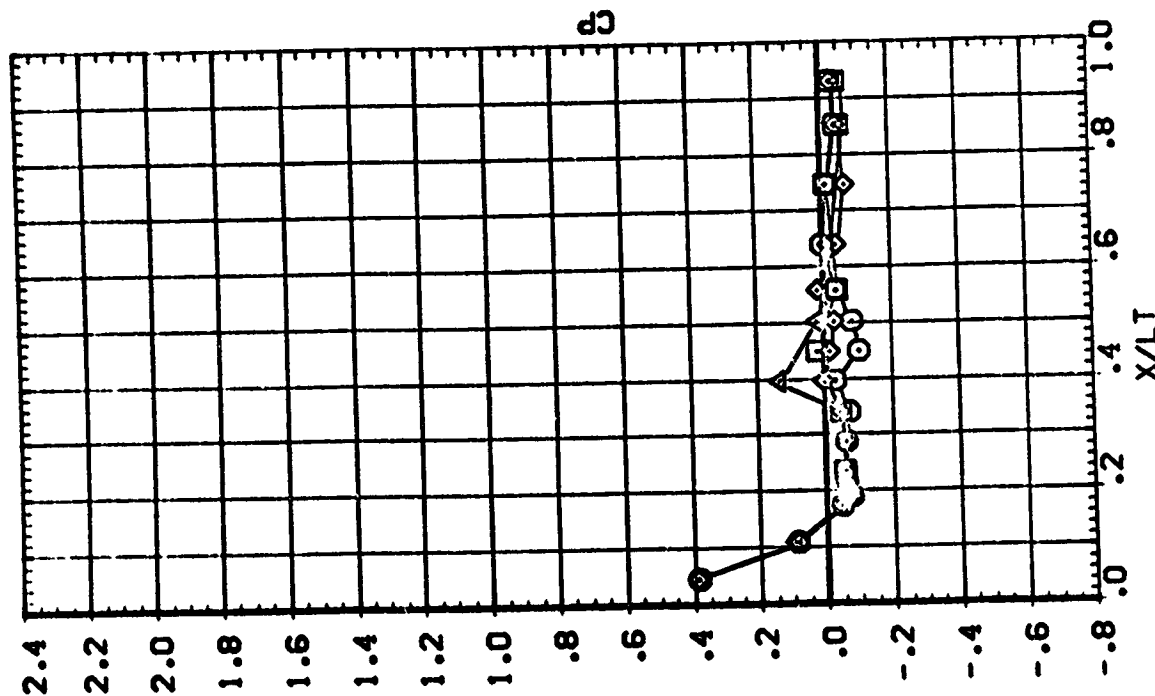
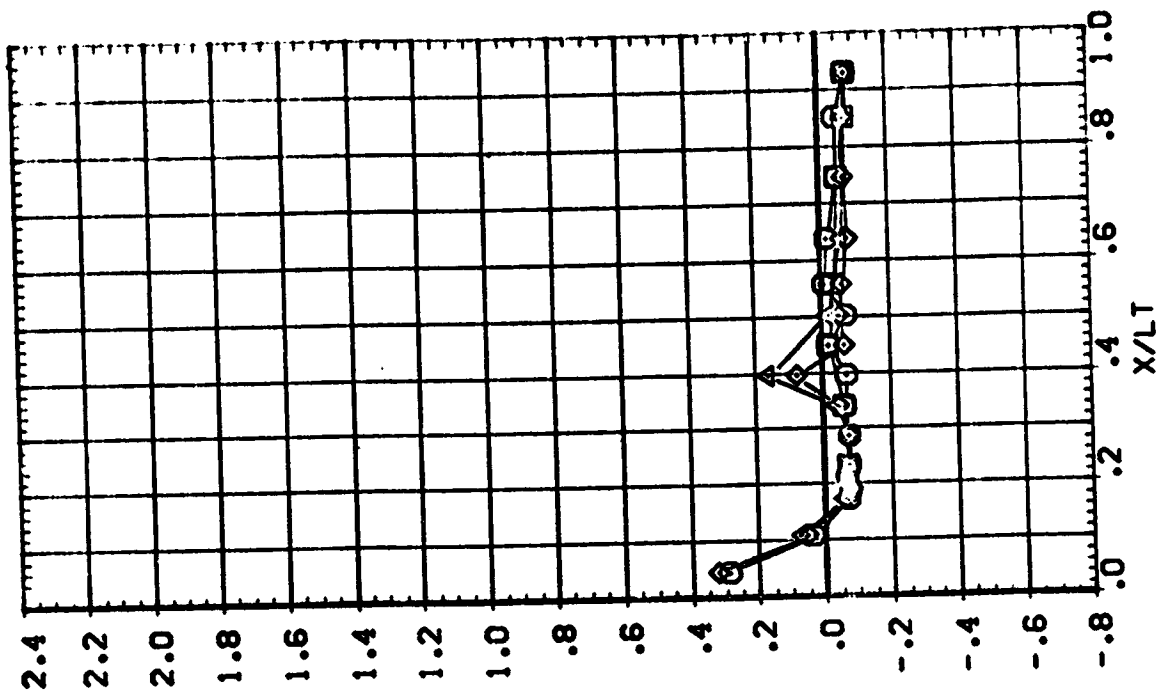
[RBNT08]

AVES 87-707 :A9 C2A + S3 + '9 EXTERNAL TANK

PARAMETRIC VALUES
 ALPHAT 4.000 ORBINC .500
 RUDDER .000 ELEVON .000
 RUFLR .000

BETAT 4.460 MACH 3.502

SYMBOL P-1
 () 170.000
 [] 135.000
 [] 150.000
 [] 165.000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

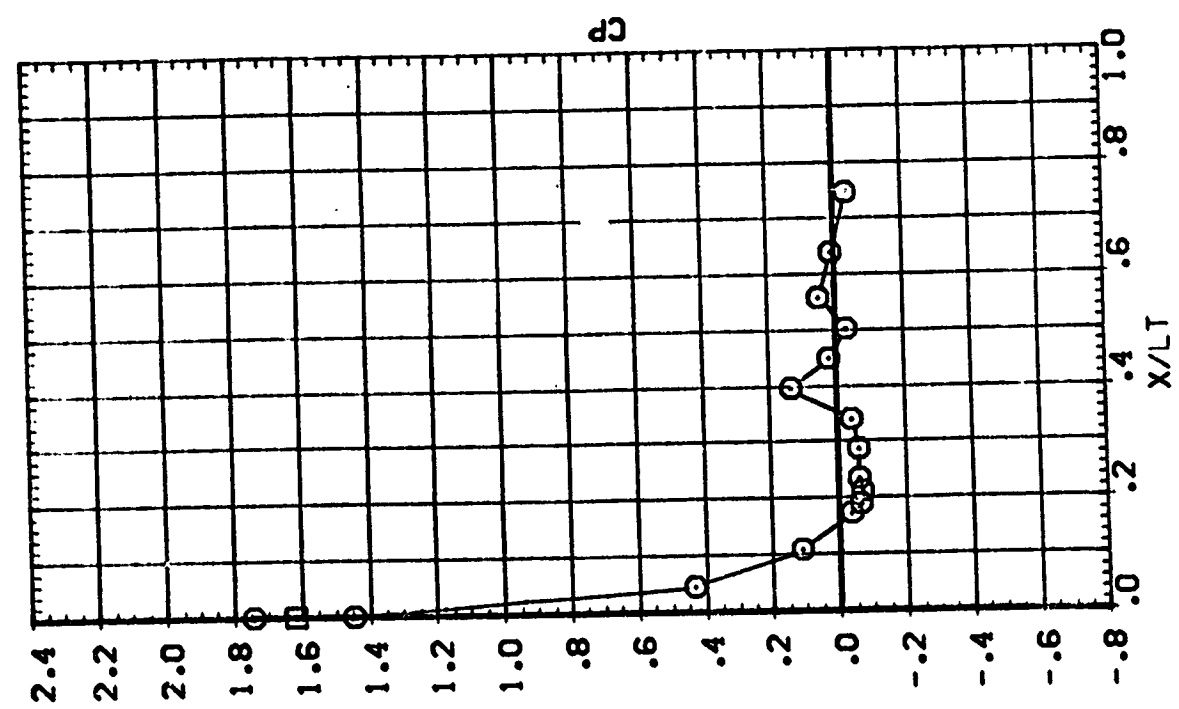
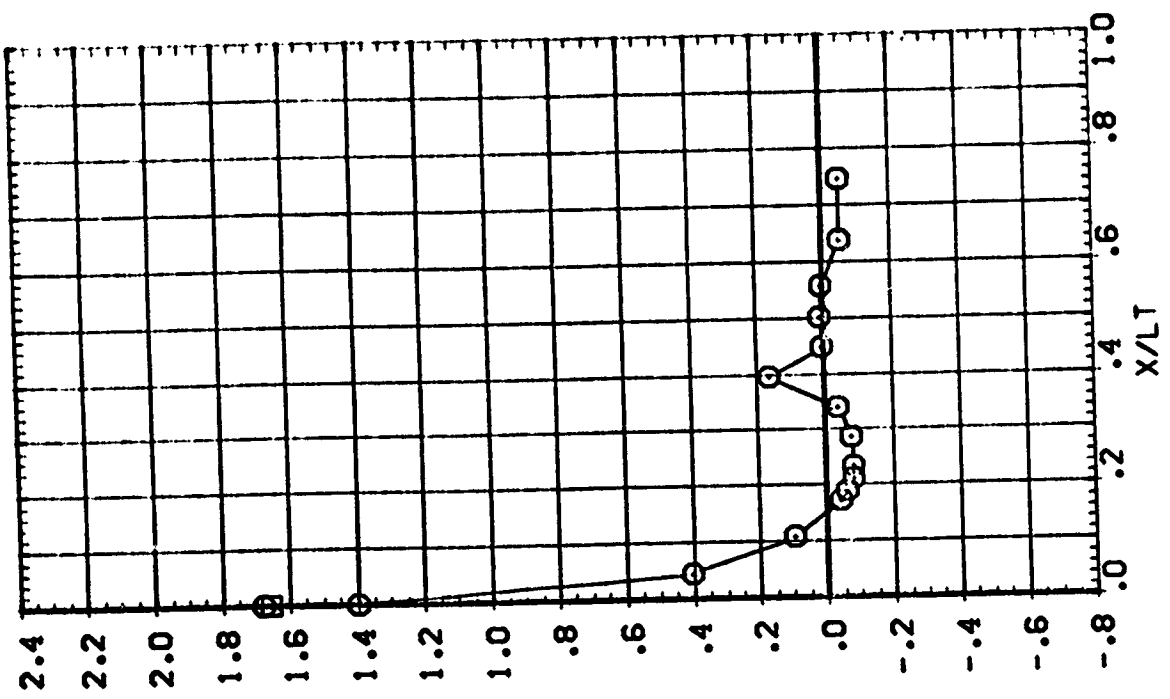
(R8NT08)

AVES 87-707 :A9 C2A - S3 + T9 EXTERNAL TANK

SYMBOL
()

PAI BETAT WAC-
180.000 4.460 3.502
270.000 8.860

PARAMETRIC VALUES
ALPHAT 4.000 DRBINC .500
RCDER .000 ELEVON .000
RUDFLR .000



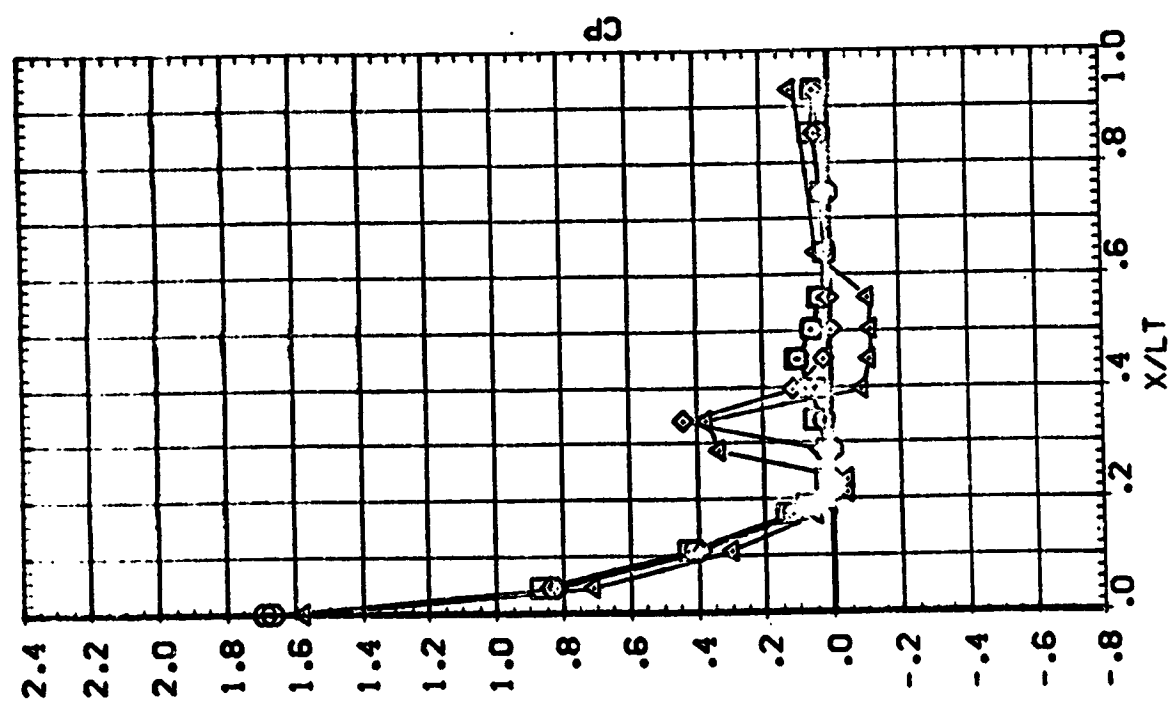
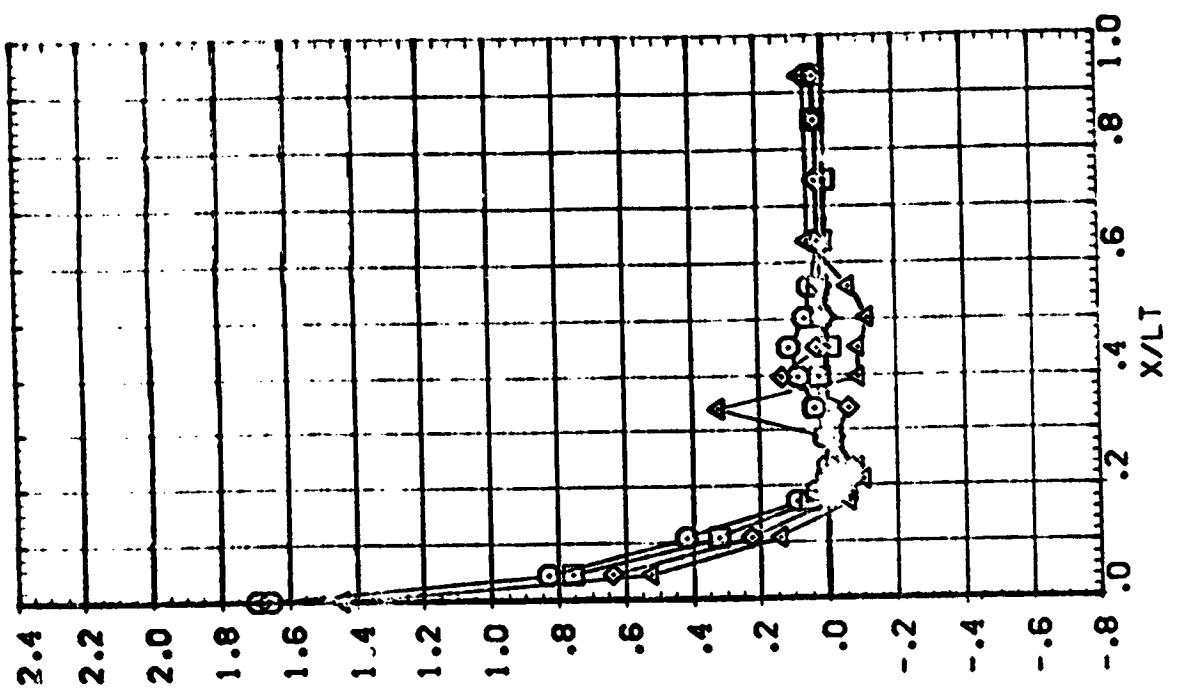
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AVES 87-707 :A9 C2A - S3 - 19 EXTERNAL TANK (RBN:0)

PARAMETRIC VALUES
 ALPHA 8.000 ORBINC .500
 RPODER .000 ELEVON .000
 R222P .000

SYMBOL
 □ 0.000
 ◇ 30.000
 △ 60.000
 ▲ 90.000

BETAT WACH
 -4.170 7.490
 2.180



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AVES 87-707 :A9 C2A - S3 - 9 EXTERNAL TANK (RBN:0)

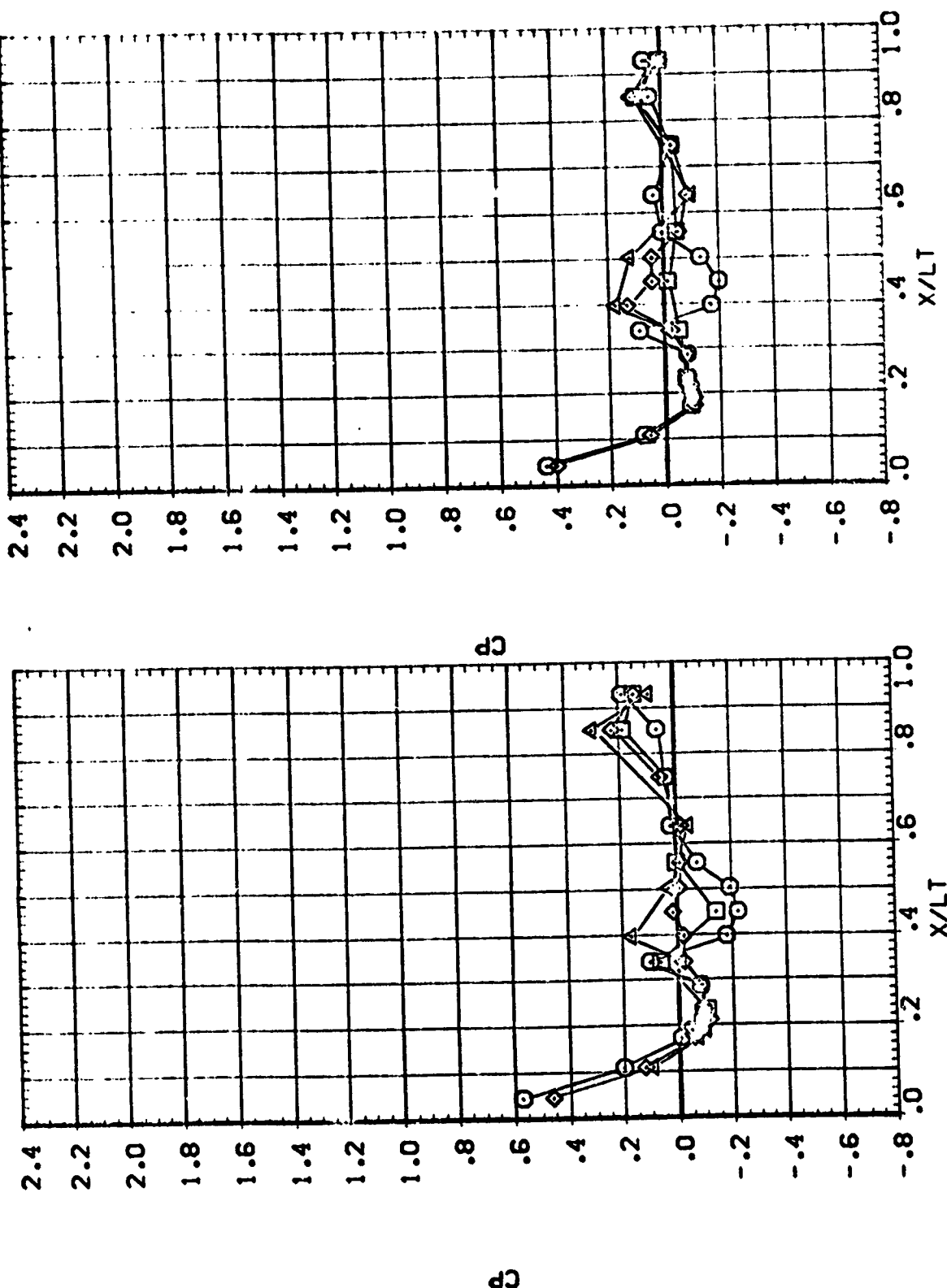
S-SC
O
O
O

PA: 120.000
135.000
150.000
165.000

BETAT -4.170
2.180

MACH 2.498

PARAMETRIC VALUES
ALPHA: 8.000
RUDER .000
ROFLR .000
ORBIT: .500
ELEV: .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

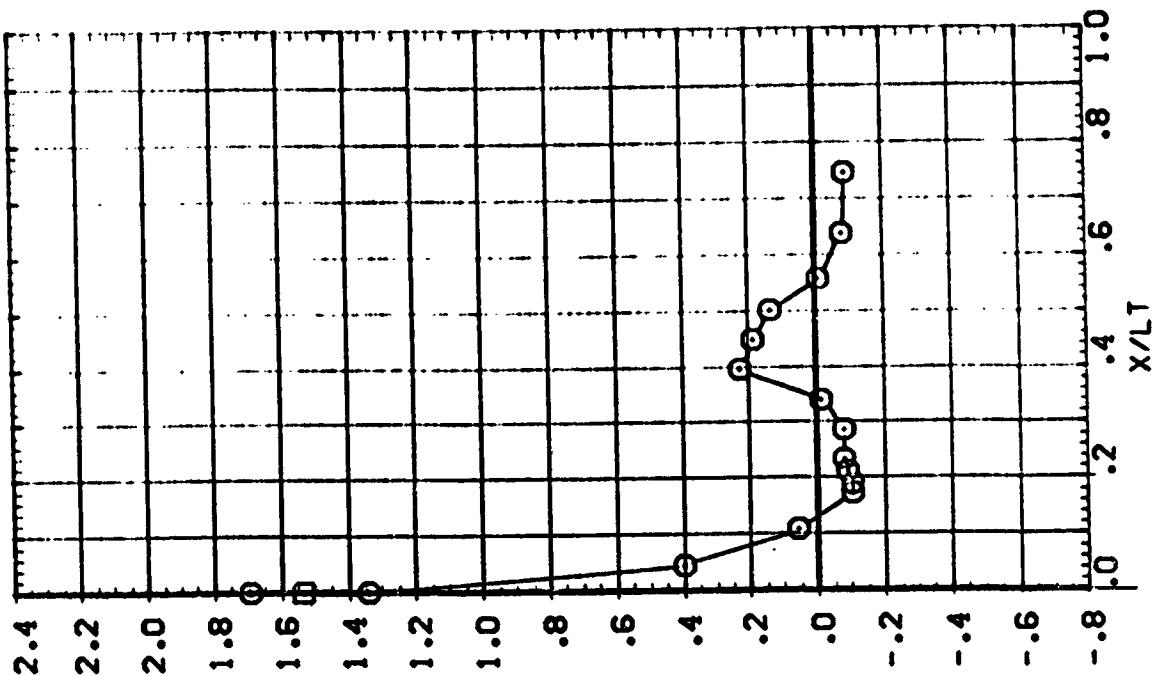
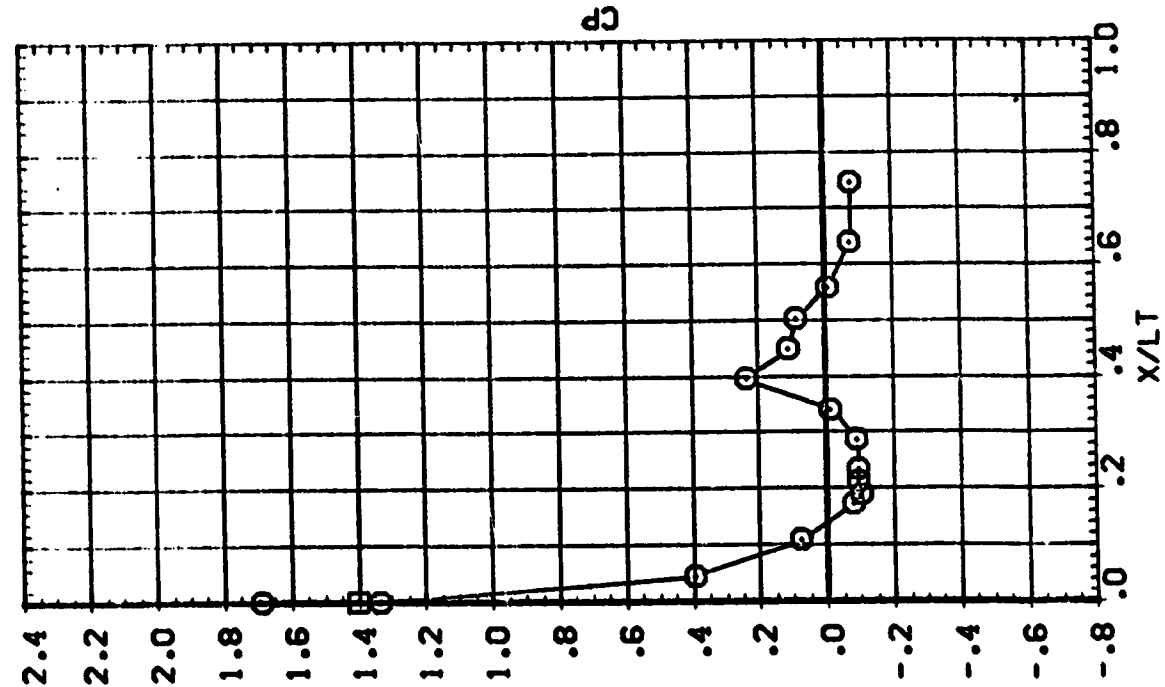
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AVES 87-707 1A9 C2A + S3 + T9 EXTERNAL TANK CRBNT:02

SYNCH
C11

PM: 180.000 270.000
BETAT -4.170 7.180
MACH 2.498

BASELINE VALUES
ALPHA 8.000 0.000
RUDER 0.000 0.000
ELEVON 0.000 0.000



LONGITUDINAL-DISTRIBUTION OF EXTERNAL TANK PRESSURES

AVES 87-707 1A9 C2A - S3 - 19 EXTERNAL TANK (RBT:0)

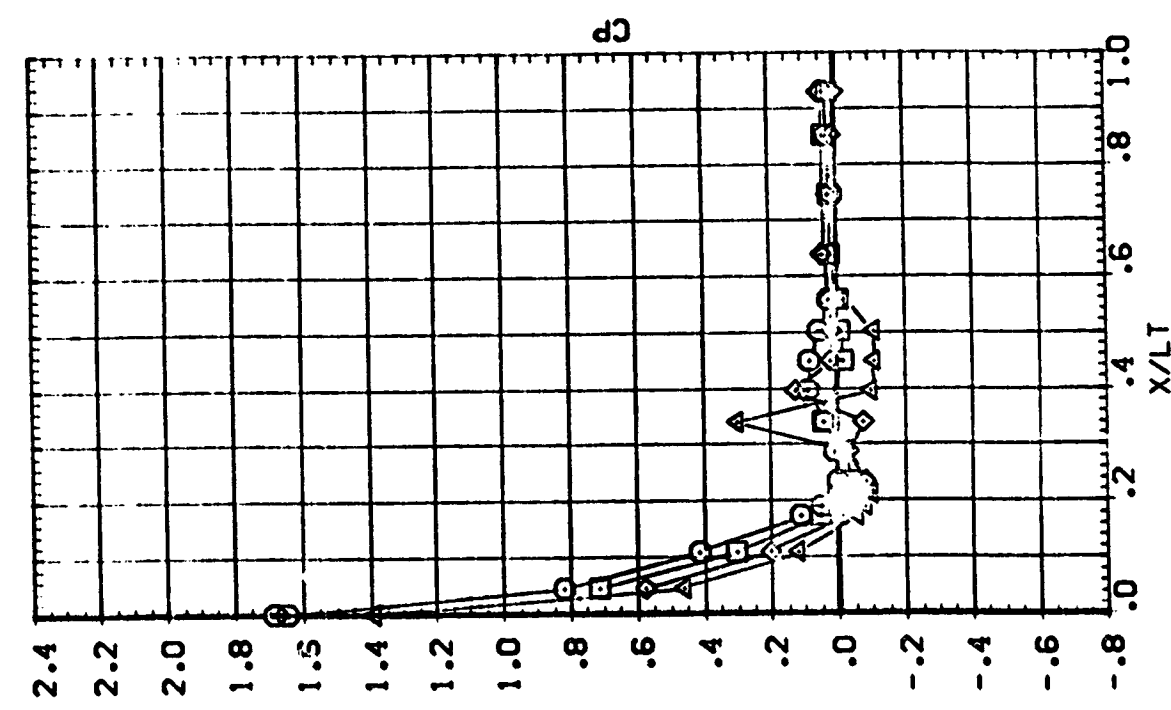
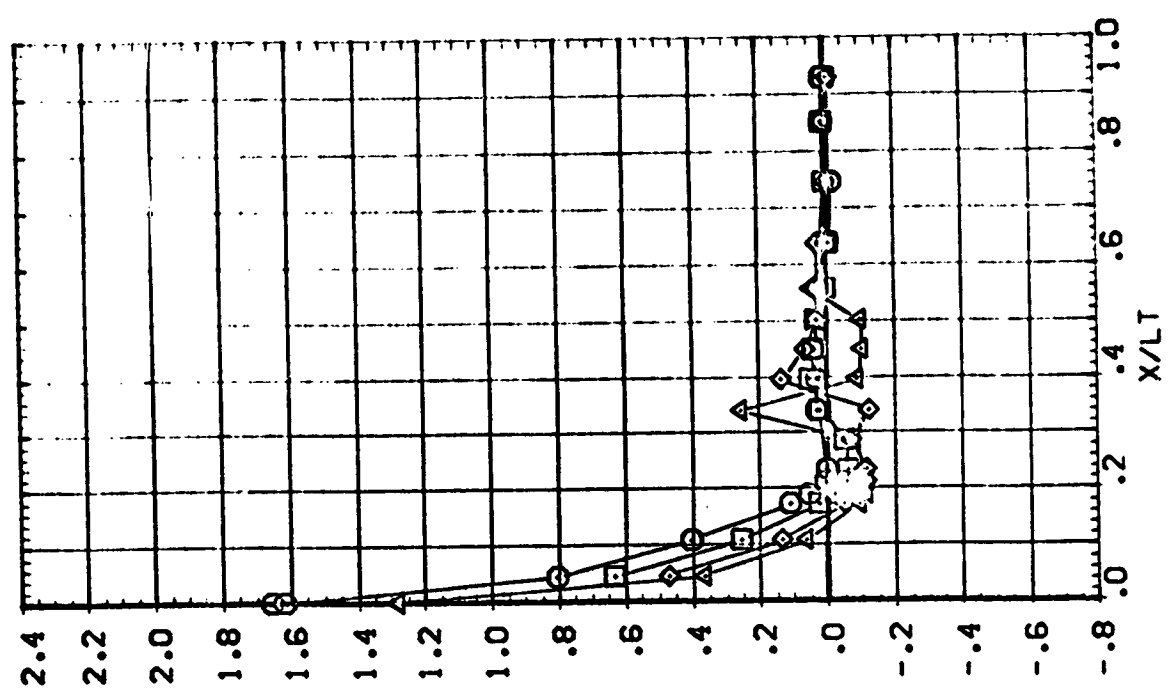
SINGL.
 01
 02
 03
 04

BETAT
 4.320
 8.580

MACH
 2.498

POSITIVE VALUES
 ALPHAT
 RUDDER
 RUDDLR

.500
 .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

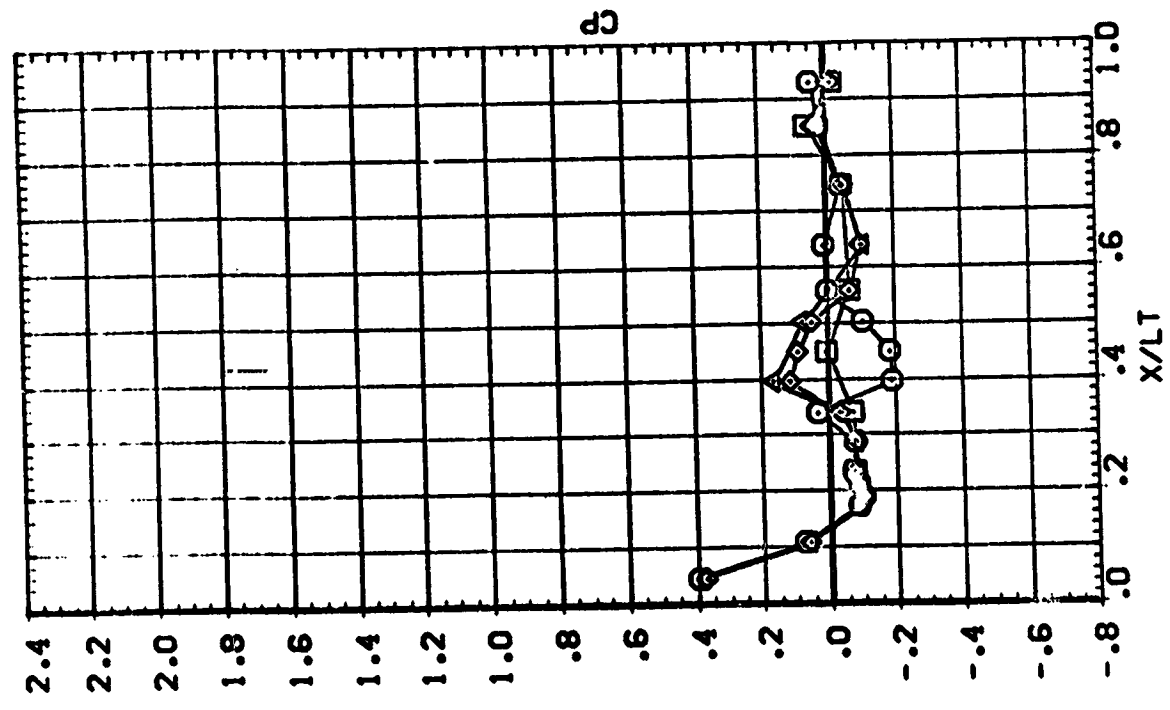
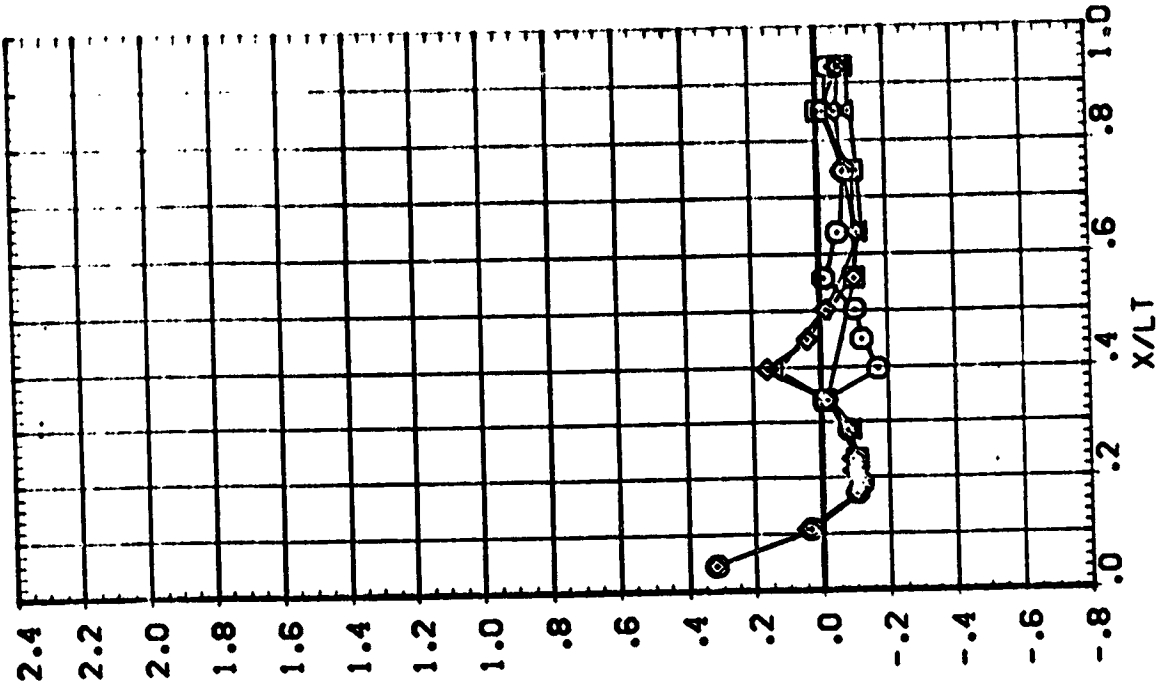
[RENT10]

AVES 87-707 :A9 C2A + S3 + T9 EXTERNAL TANK

PARAMETRIC VALUES
 ALPHAT 8.000 D99:NC .500
 RLODER .000 ELEVON .000
 RLOFLR .000

SWGC
 :20.000
 :35.000
 :50.000
 :65.000

BETA* 4.320 2.498
 8.58C



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

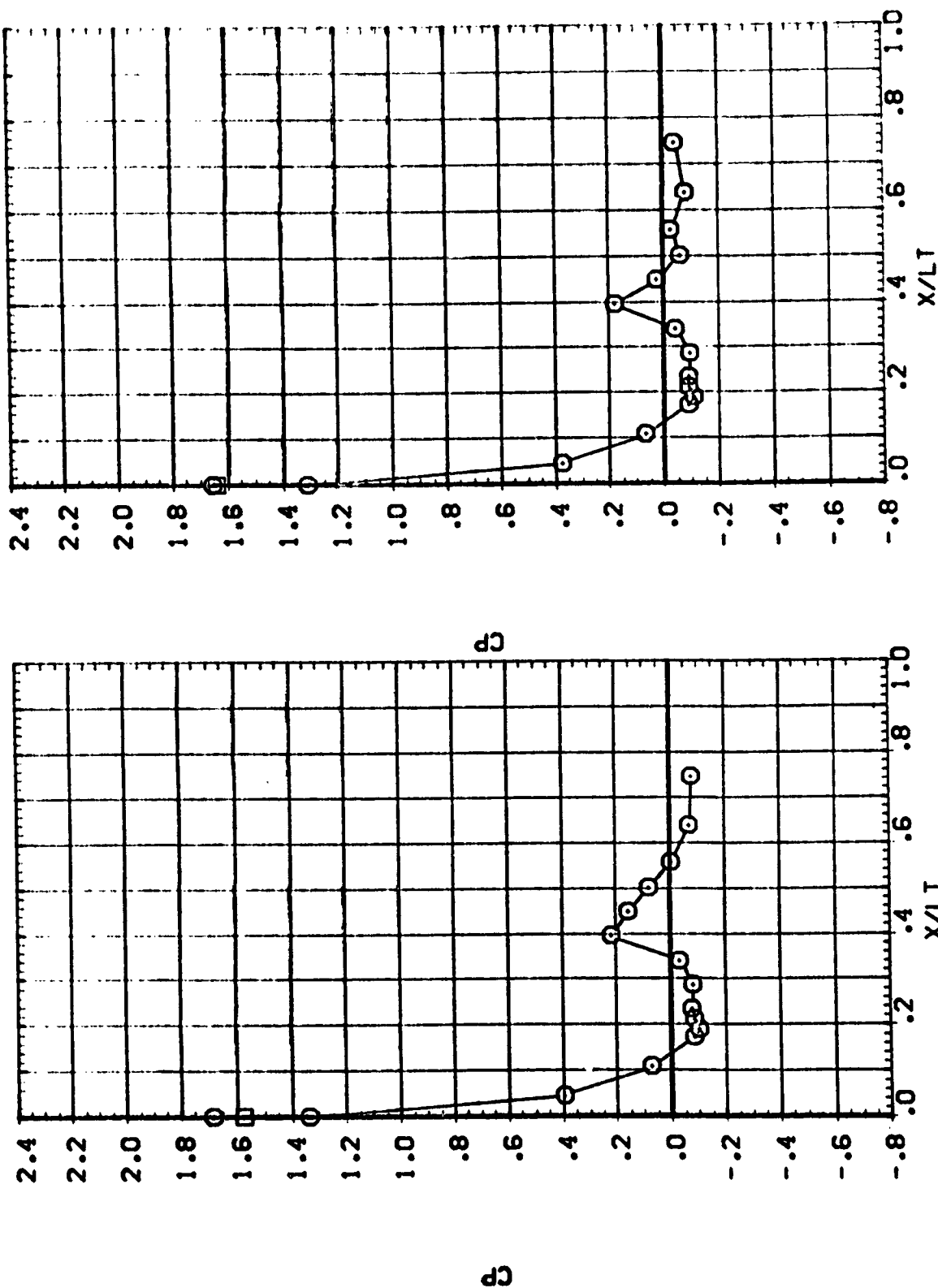
AVES 87-707 :A9 C2A + S3 + T9 EXTERNAL TANK (CRBNTIC)

SYNOPSIS
 P-1
 180.000
 270.000

BETAT
 4.370
 8.580

WACH
 2.498

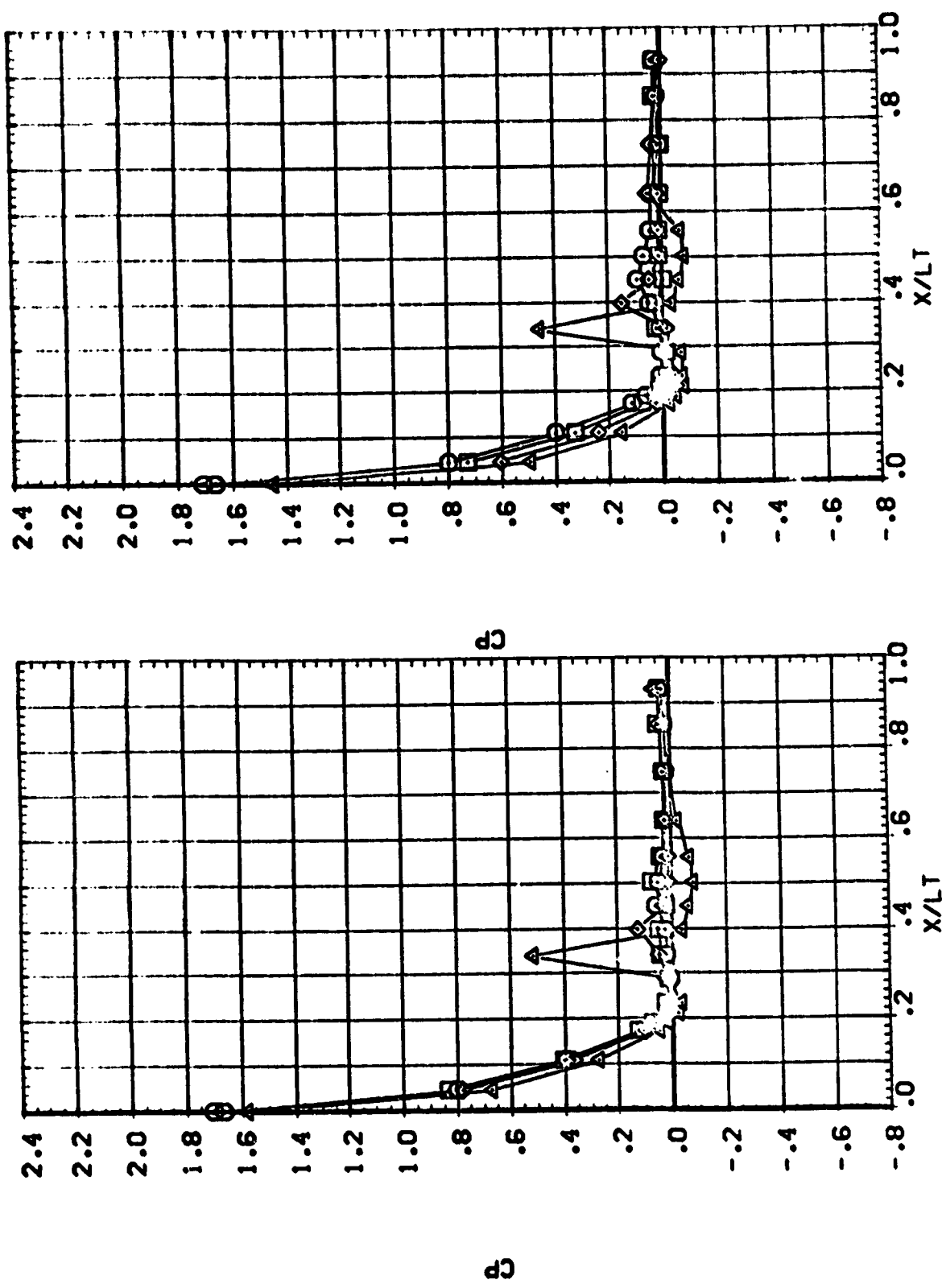
PARAMETRIC VALUES
 ALPHAT 8.000
 RUDER .000
 RUDFLR .000
 SBRIC .500
 ELEVON .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AVES 87-707 :A9 C2A + S3 + 19 EXTERNAL TANK (RBN:00)

SVSC	PH	BETAT	MACH	PARAMETRIC VALUES
0.000	0.000	-4.240	2.999	ALPHA
30.000	30.000	2.230		8.000
60.000	60.000			ORBIT
90.000	90.000			ELEV
				0.000
				0.000
				0.000



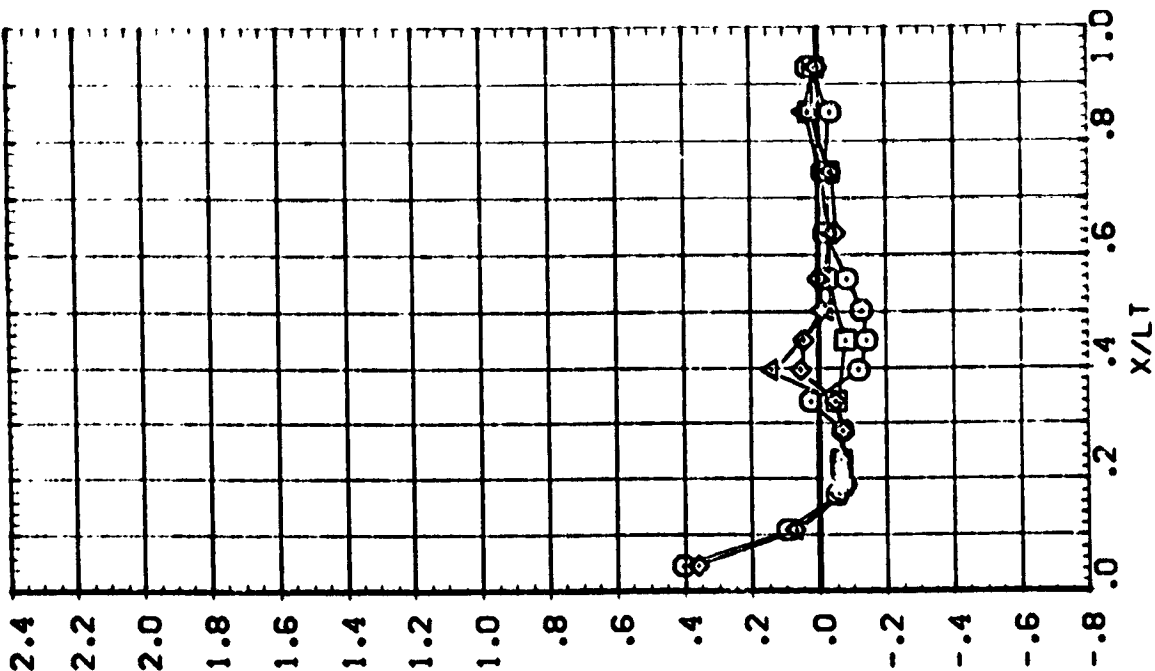
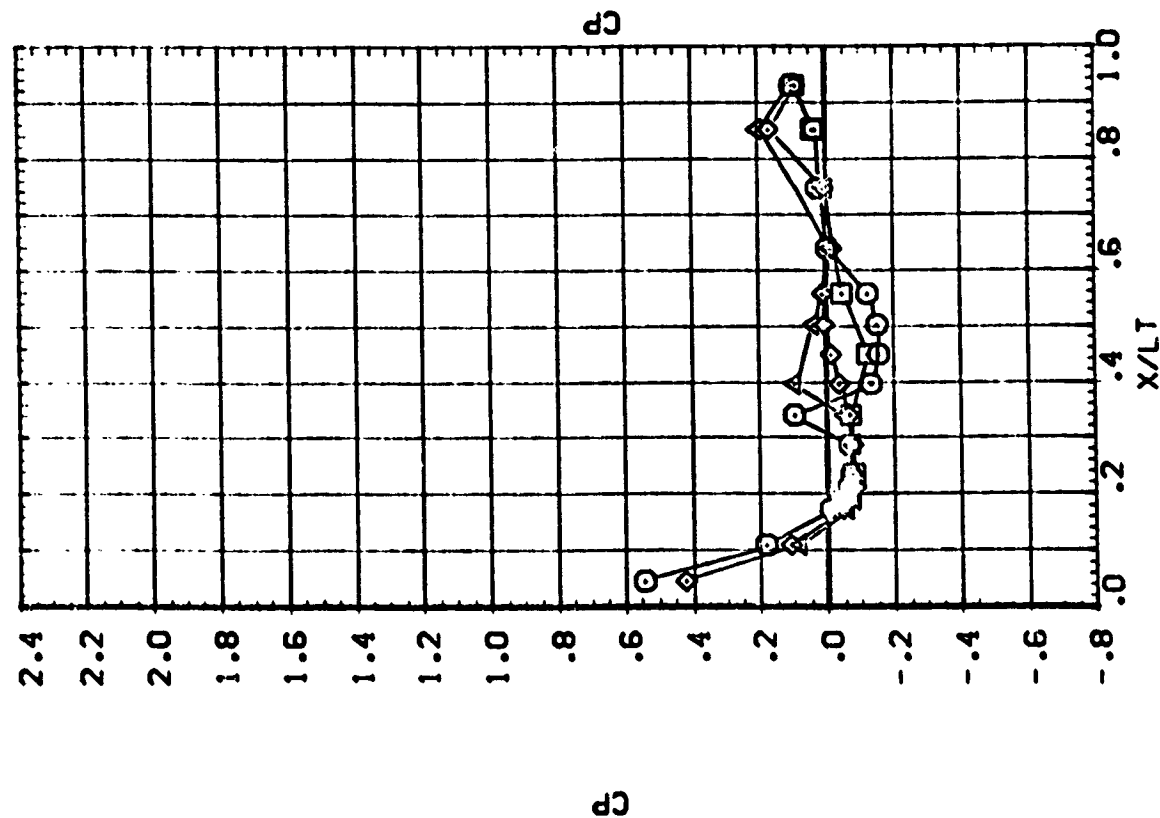
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AVES 87-707 :A9 C2A + S3 + T9 EXTERNAL TANK (RBNT10)

SYNOPSIS
 170.000
 135.000
 150.000
 165.000

BEAT WACH
 -4.740 2.999
 7.730

PARAMETRIC VALUES
 ALPHA: 8.000 0.910C
 RLODR .000 ELEVON
 RLOFLR .000

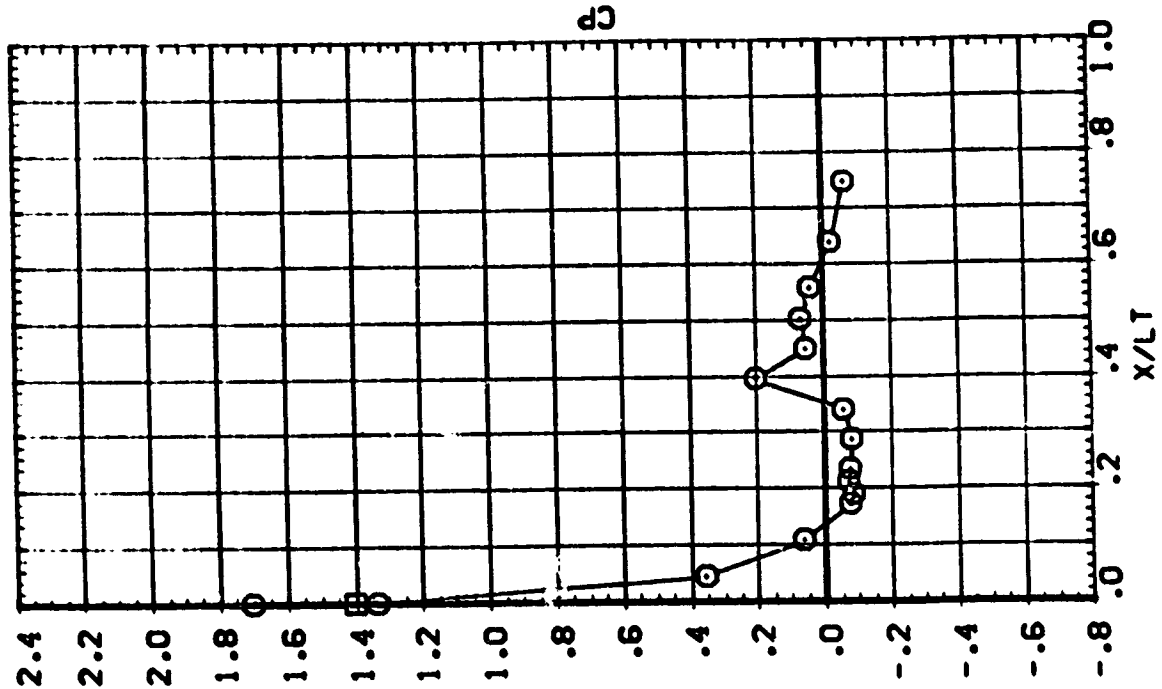
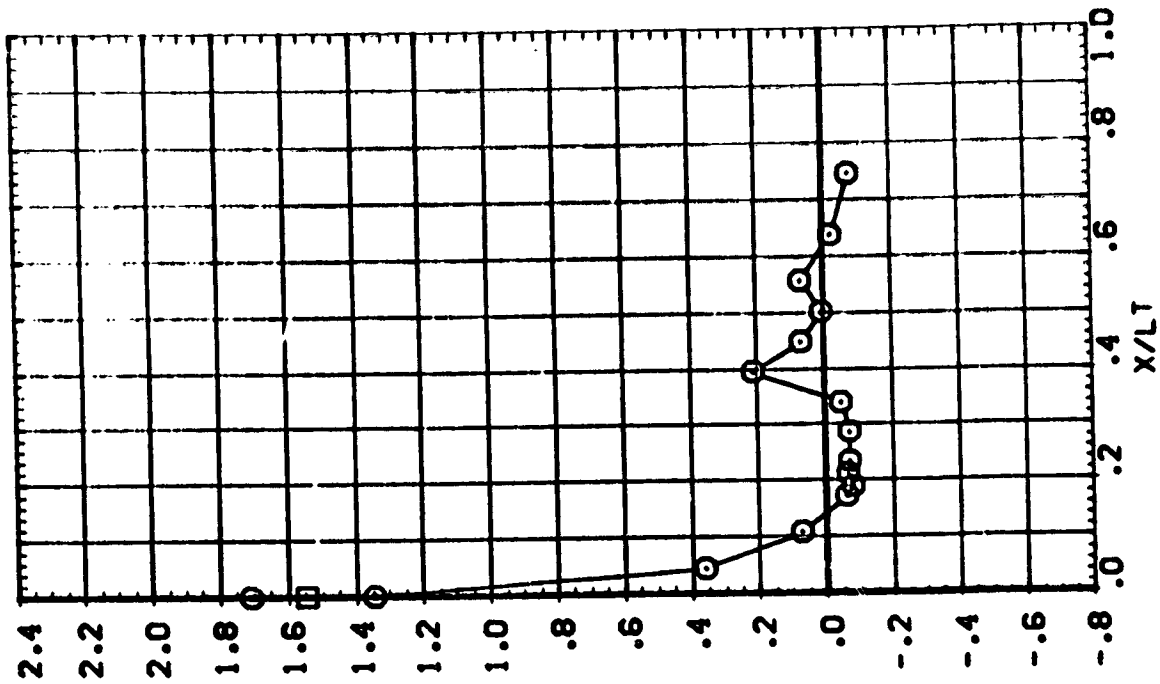


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AVES 87-707 1A9 C2A - S3 + 19 EXTERNAL TANK (R8NT10)

S-VCC: 180.000 770.000
 P-1: 1.000 1.000
 BETAT: -4.240 2.999
 WACH: 2.999 2.999

PARAMETRIC VALUES
 ALPHA: 8.000 300.000
 R-CDER: .000 ELEVON
 R-OF-FLR: .000 .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AVES 87-707 1A9 02A - S3 + 19 EXTERNAL TANK (CONT'D)

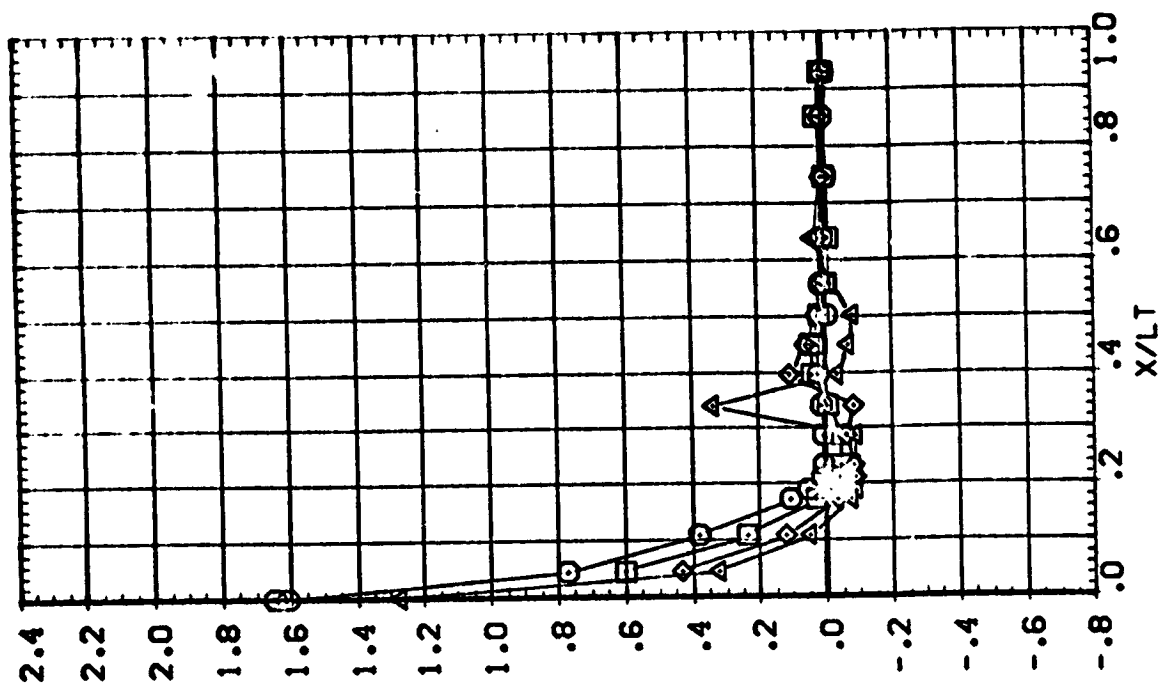
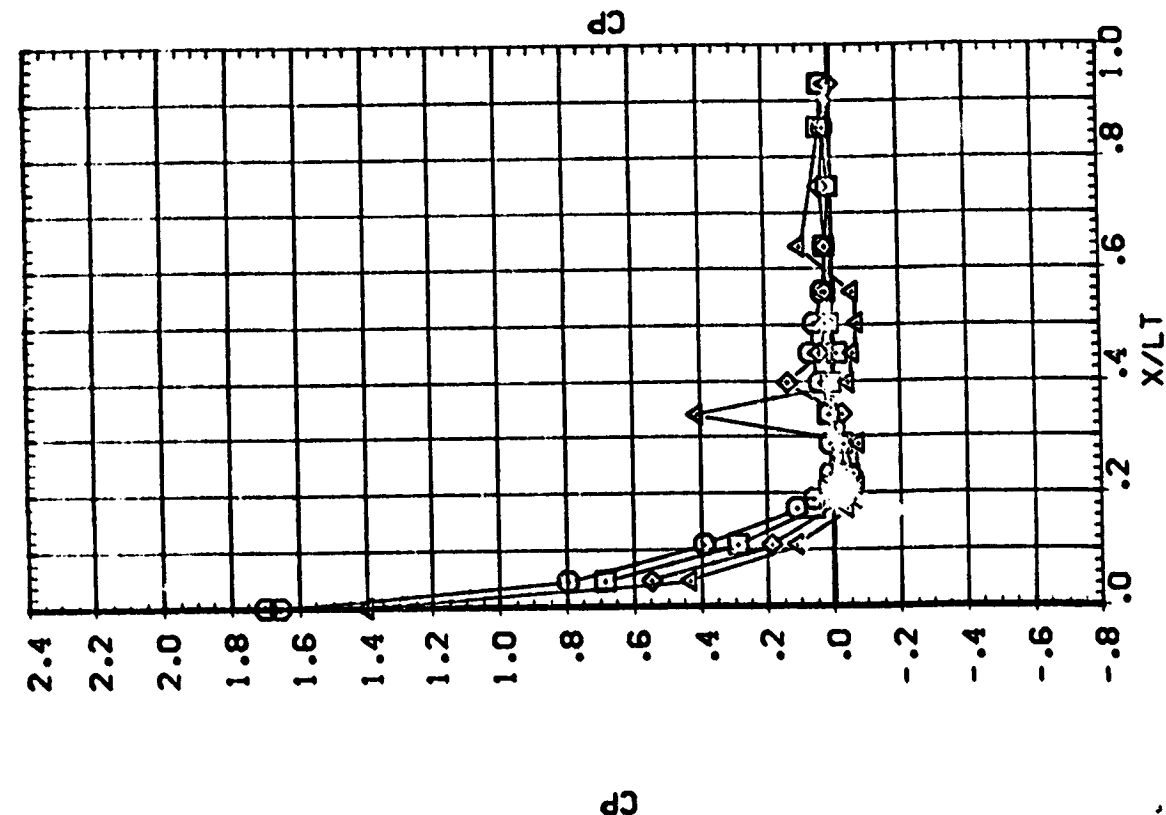
SYNCH
0
1
2
3

PHI
.000
30.000
60.000
90.000

BETA
4.400
8.740

WACH
2.999

PARAMETRIC VALUES
ALPHA
8.000
0.000
RJOER
RJOFLR
ORBINC
ELEVON
.000
0.000
0.000
0.000

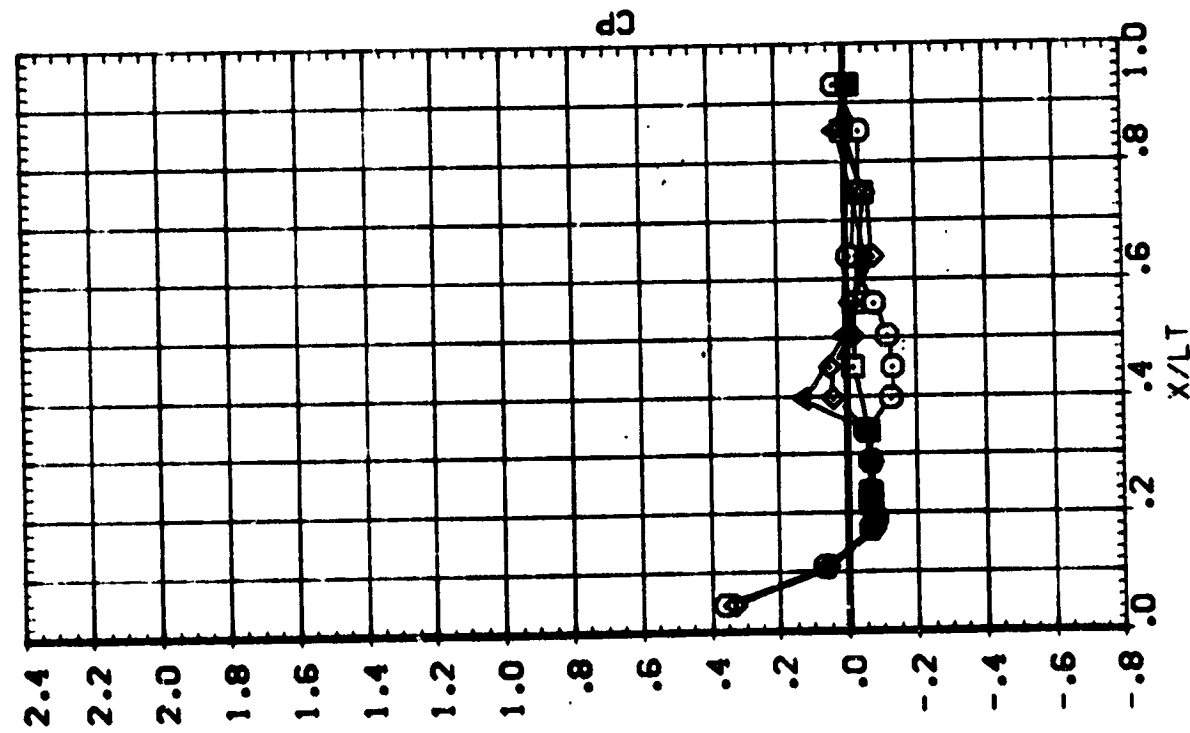
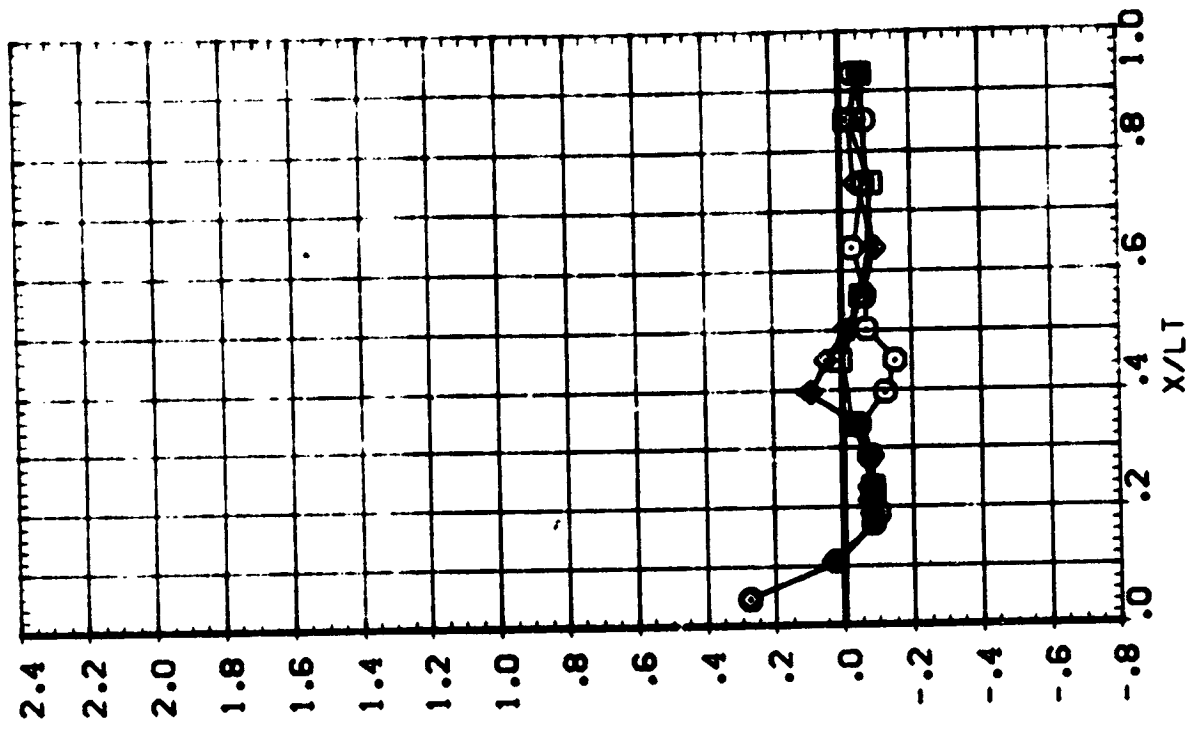


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

PARAMETRIC VALUES
 ALPHA 8.000 DRBINC .500
 RUDDER .000 ELEVON .500
 RUDDER .000

PH: 120.000 MACH 2.999
 135.000 8.740
 150.000
 165.000

SYMBOL
 ○ □ ◇ △

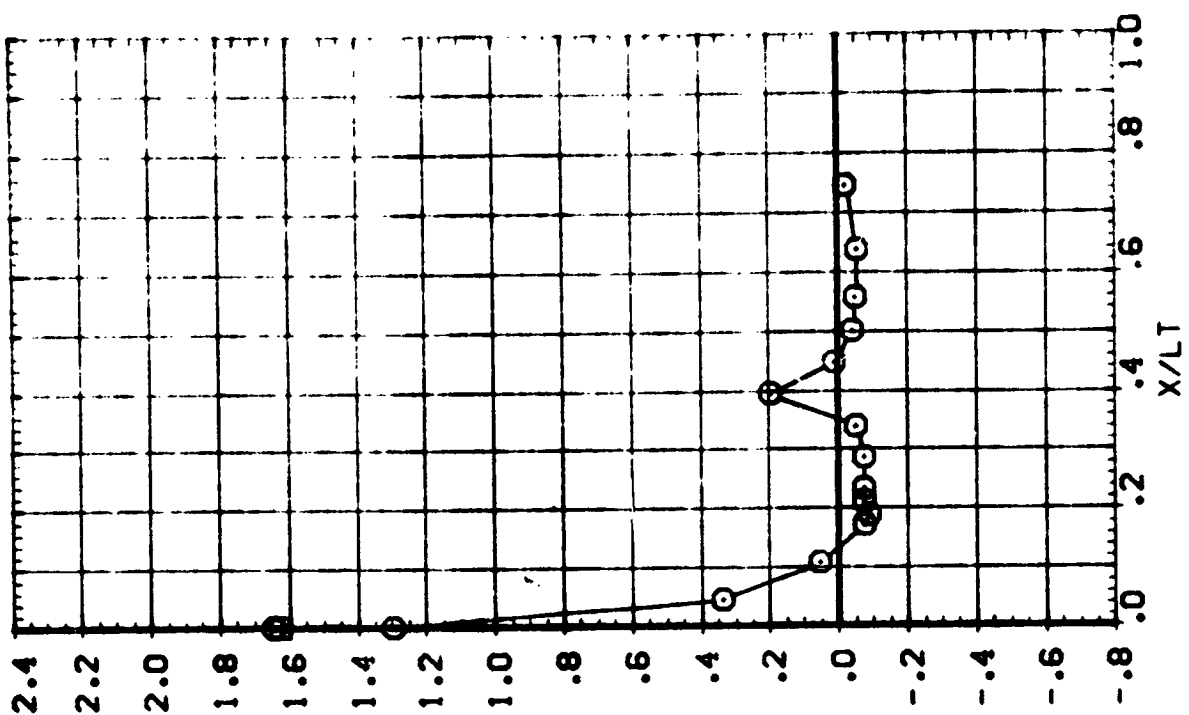
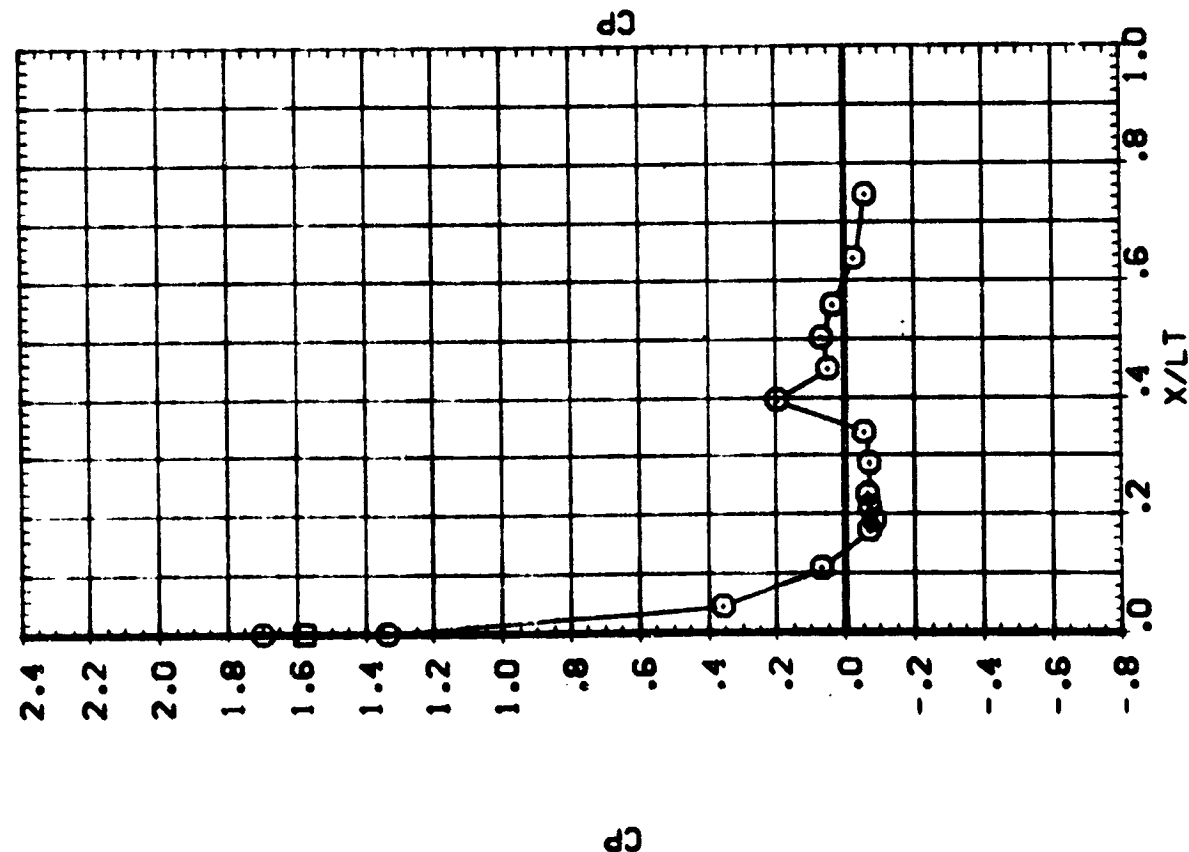


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 87-7C7 1A9 02A + S3 + 19 EXTERNAL TANK (RBN:00)

SYMBOL: 80.000 7/C:000
 P1: 4.400 8.740
 2/C:000 8.740

PARAM: R/C VALS
 8.000 0.000
 0.000 0.000
 0.000 0.000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

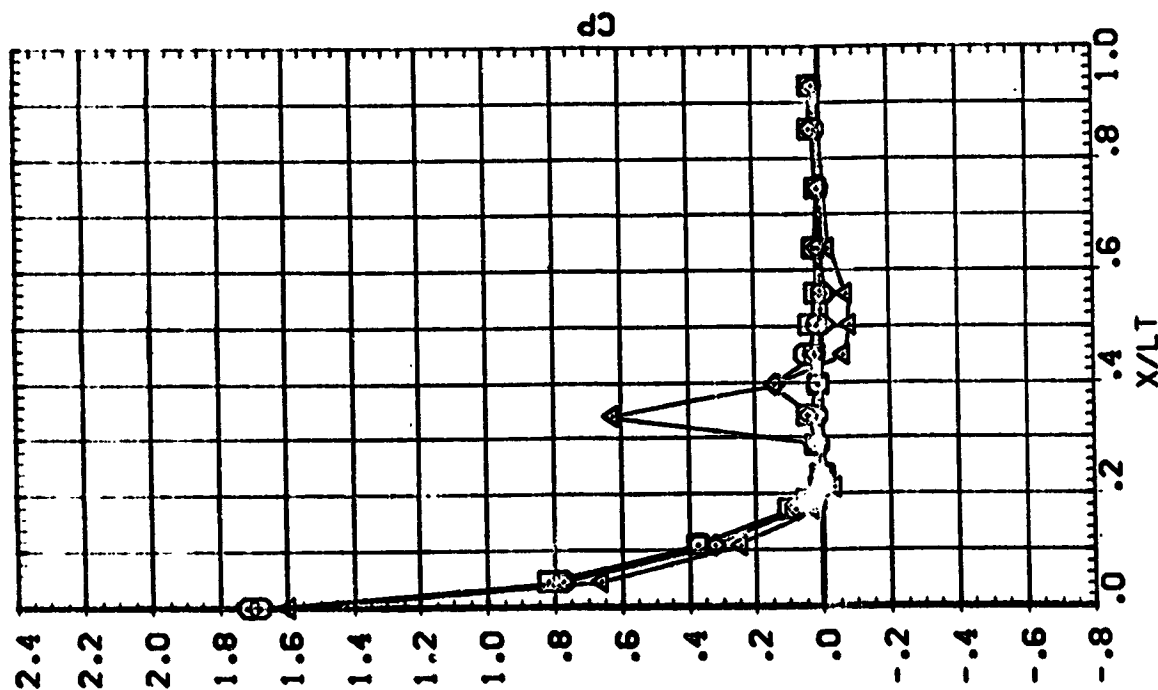
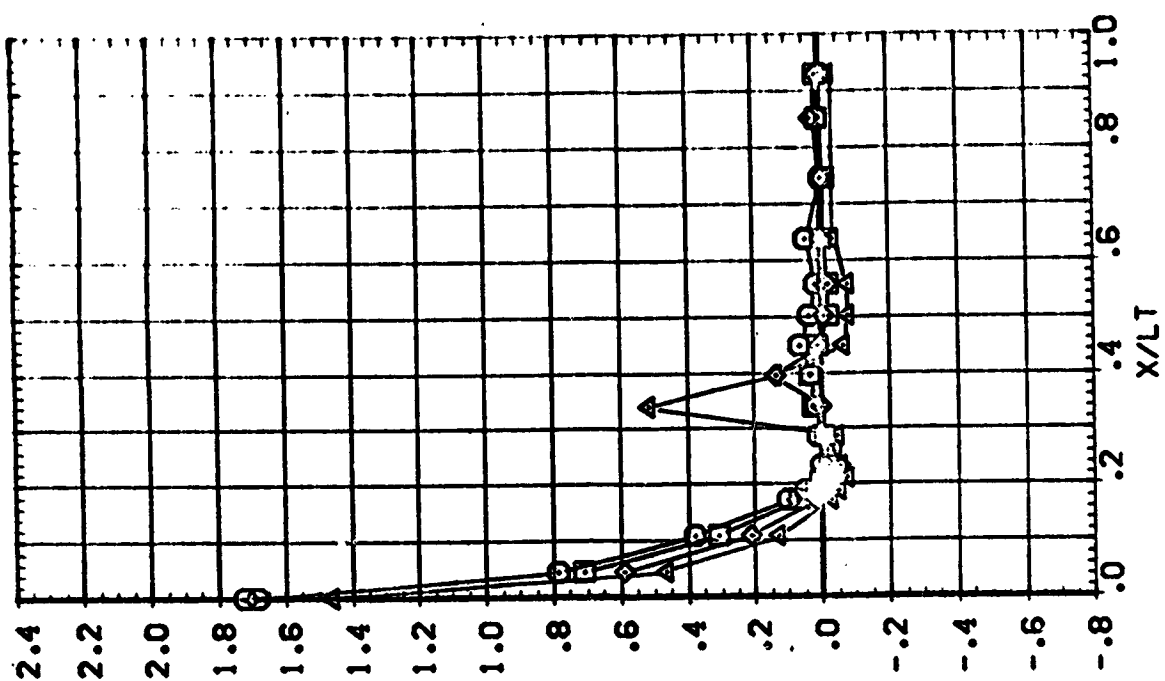
[RBNT10]

AVES 87-707 :A9 C2A + S3 + '9 EXTERNAL TANK

SYMBOL
○
◇
△

DATA: BETAT: MAC-
0.000 -4.310 3.502
30.000
60.000
90.000

PARAMETRIC VALUES
ALPHAT 8.000 0.000 0.000
RLODER 0.000 0.000 0.000
RLOFLR 0.000 0.000 0.000



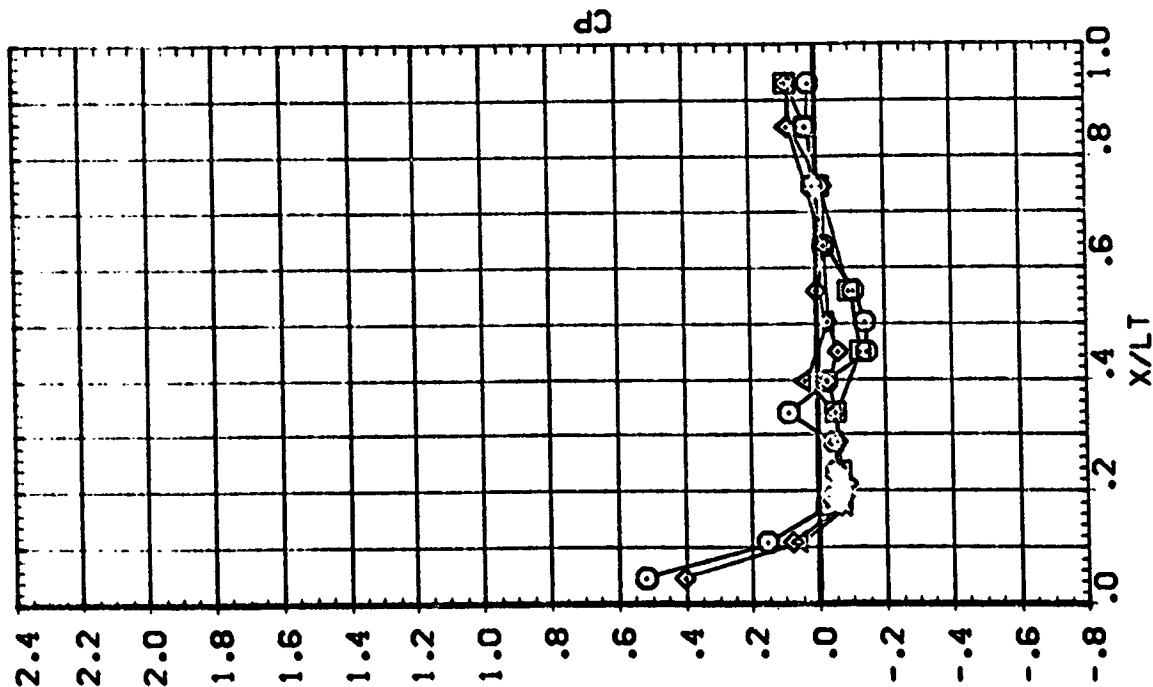
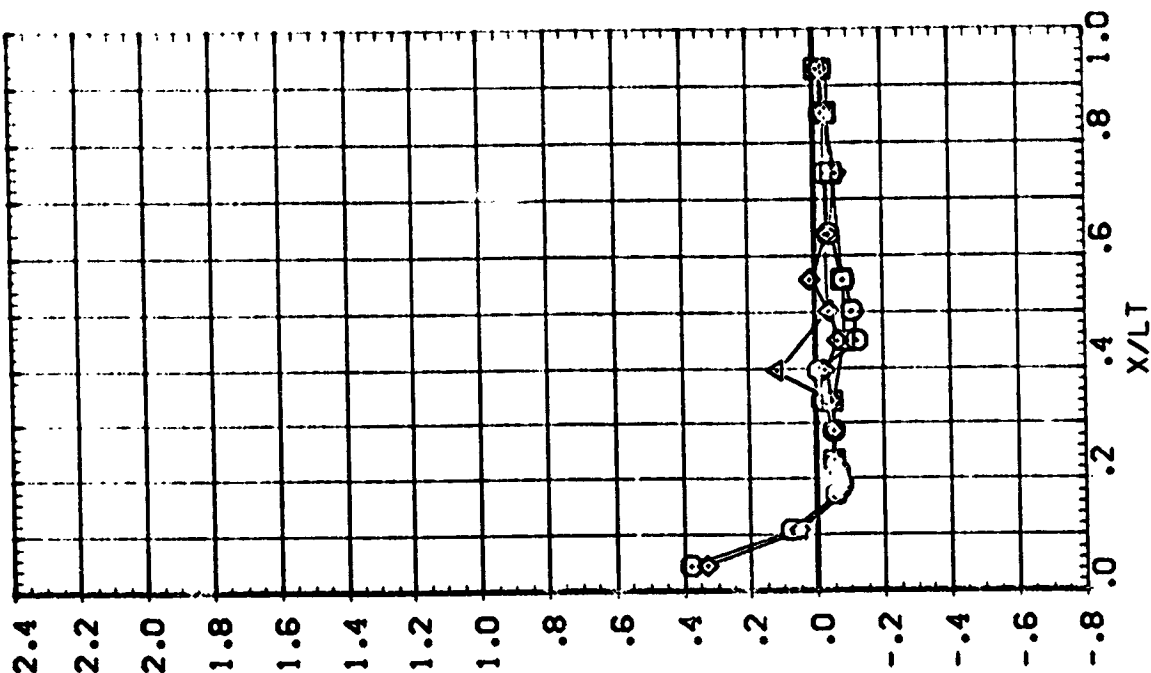
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AVES 87-707 :A9 C2: - S3 - 19 EXTERNAL TANK (CRBT:00)

SYSC-
 () :20.000
 () :35.000
 () :50.000
 () :65.000

BETAT WACH
 -4.310 3.532
 2.260

PARAMETRIC VALUES
 ALPHAT 8.000 CRBINC .500
 RUDDER .000 ELEVON .000
 RUDDLP .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

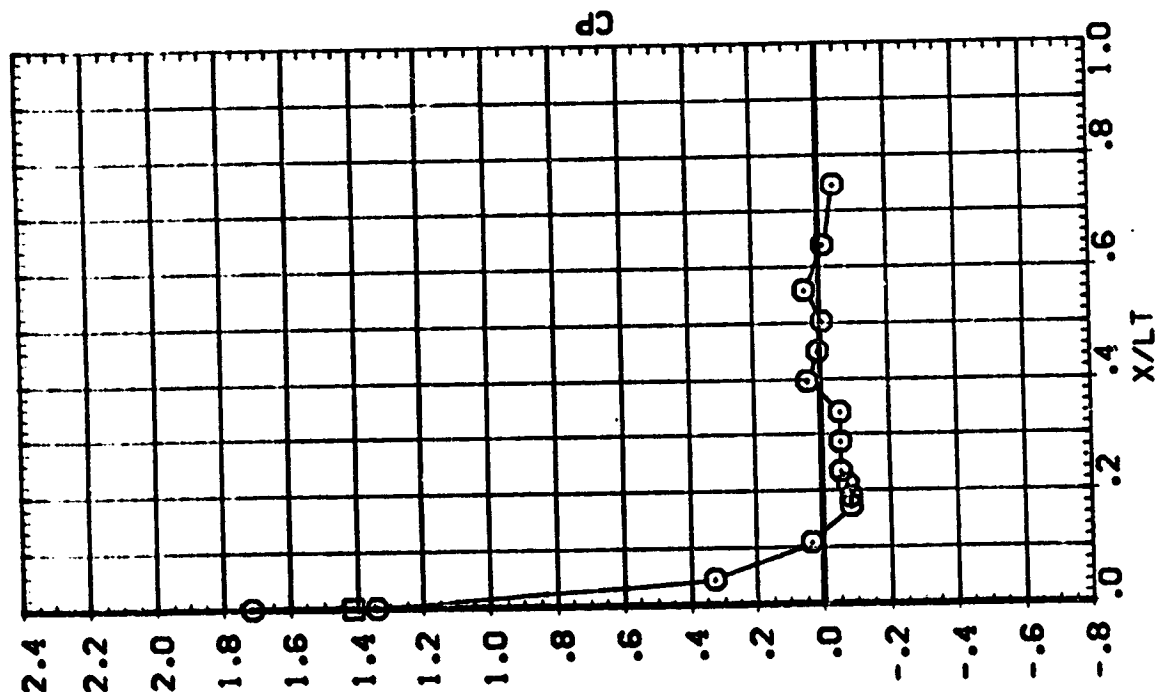
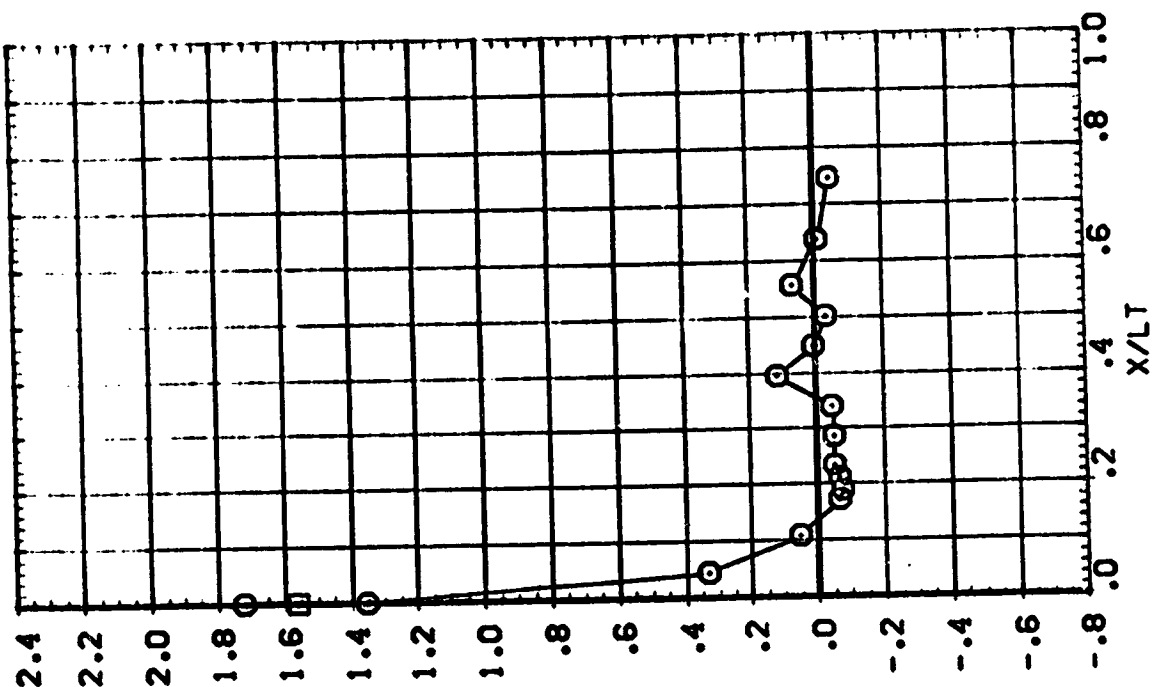
AVES 87-707 1A9 C2A - S3 - 19 EXTERNAL TANK (CONT'D)

SYNCH: 180.000
 770.000
 0.000
 0.000

BEAT: -4.313
 2.260

MACH: 3.502

PARAMETRIC VALUES
 ALPHA: 0.000
 RUDER: 0.000
 RUDER: 0.000
 ELEVON: 0.000
 0.000



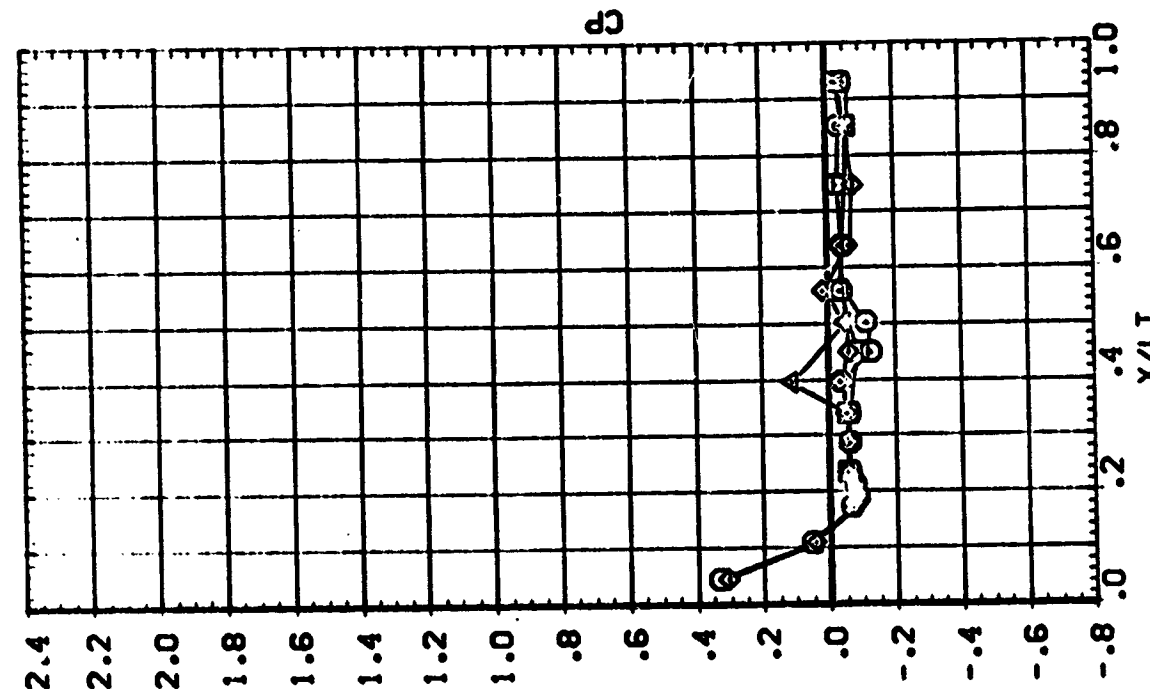
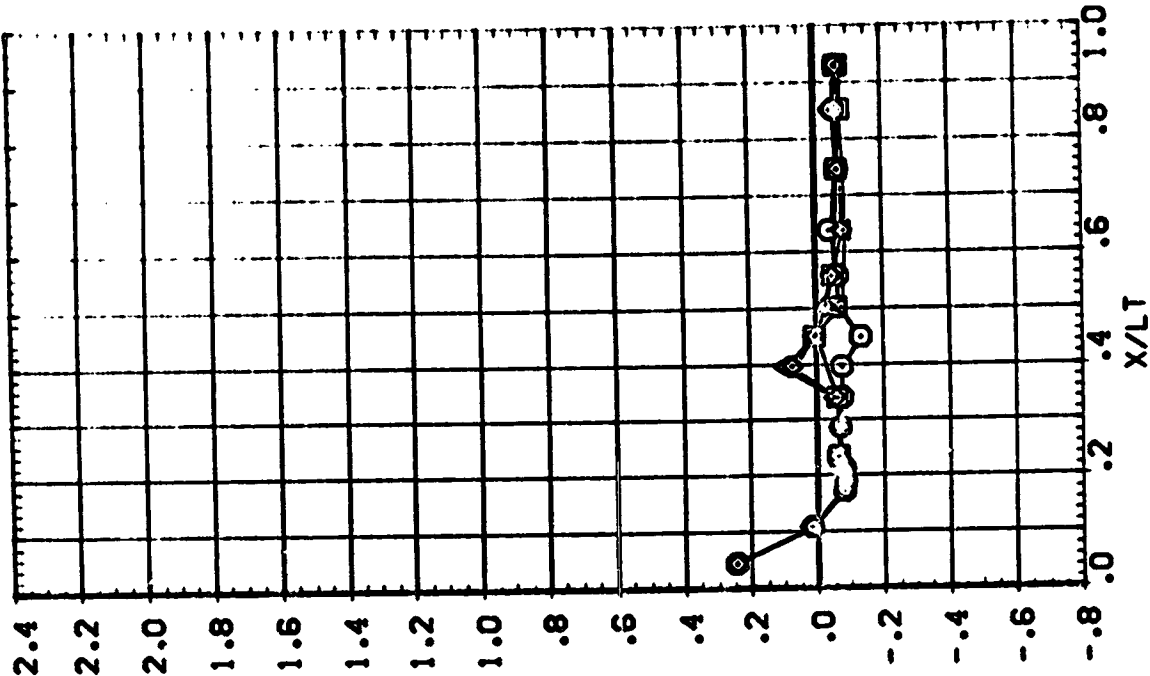
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AVES 87-707 :A9 C2A + S3 + T9 EXTERNAL TANK (RBNT10)

SYSC
 0110
 1010
 1010
 1010

BEAT MACH
 1.480 3.502
 8.900

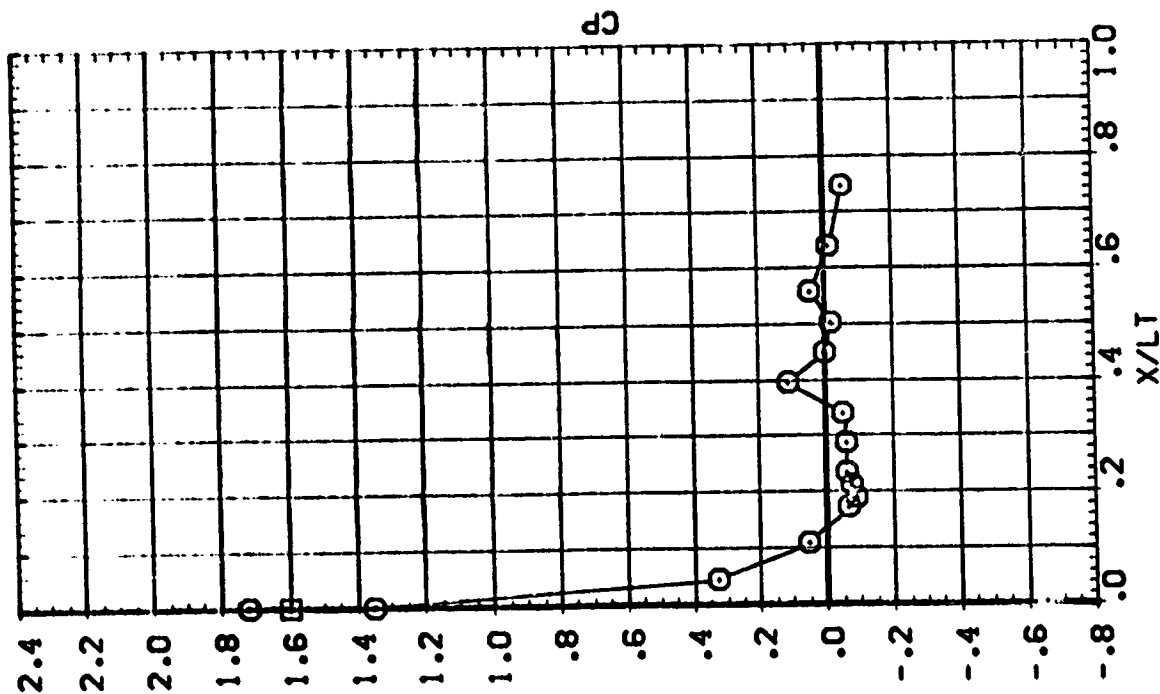
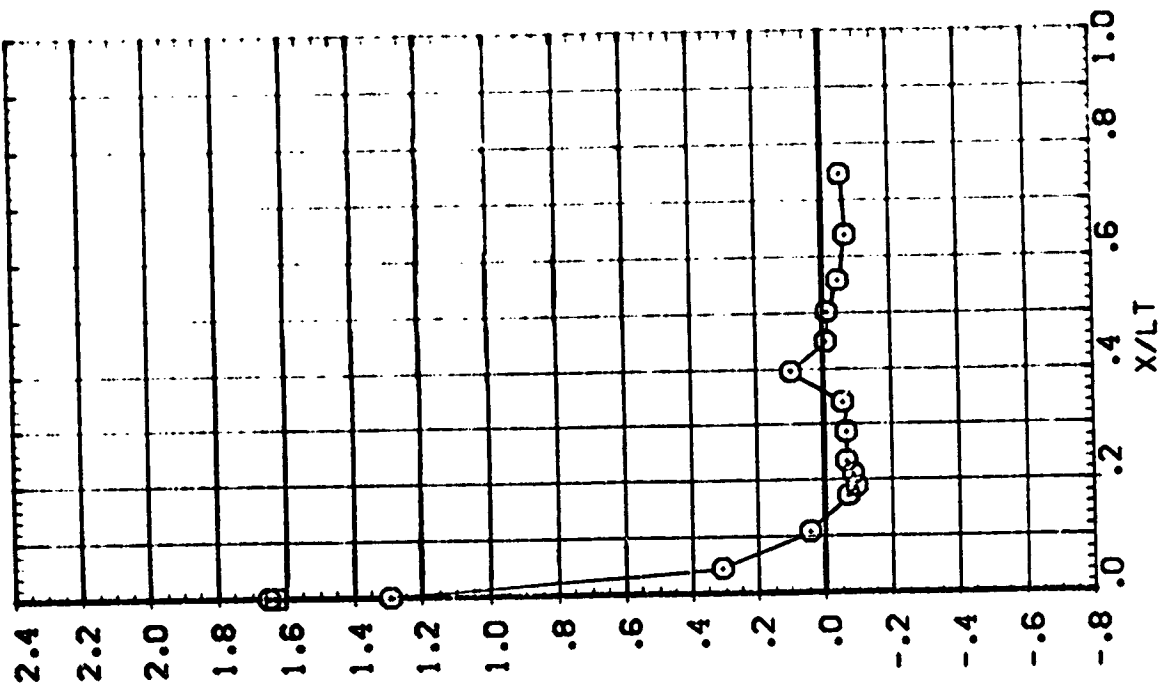
PARAMETRIC VALUES
 ALPHAT 8.000 0.000
 RUDDER 0.000 0.000
 RUFLR 0.000 0.000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AVES 87-707 :A9 C2A - S3 - '9 EXTERNAL TANK (RBN:00)

SWSZ: 180.000 270.000
 D-1: 180.000 270.000
 BETAT: 4.480 8.900
 WACH: 3.502
 ALPHAT: 8.000 8.000
 RUDEP: 1.000 1.000
 RUDELR: 1.000 1.000
 PARAMETRIC VALUES: 500 500



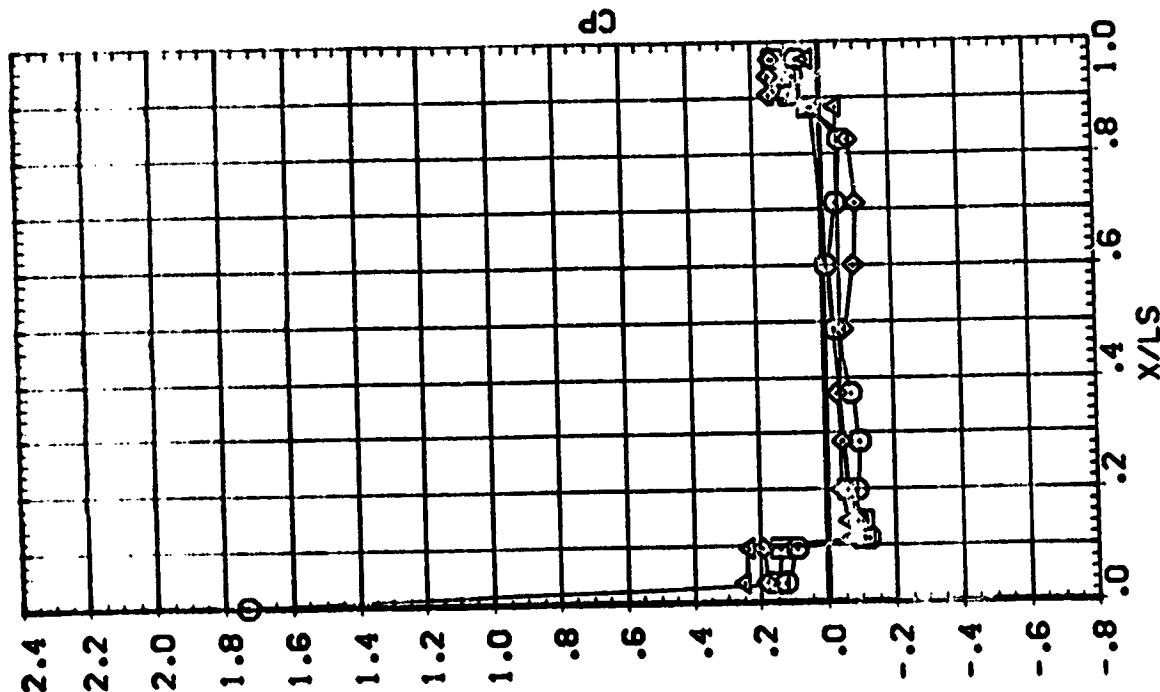
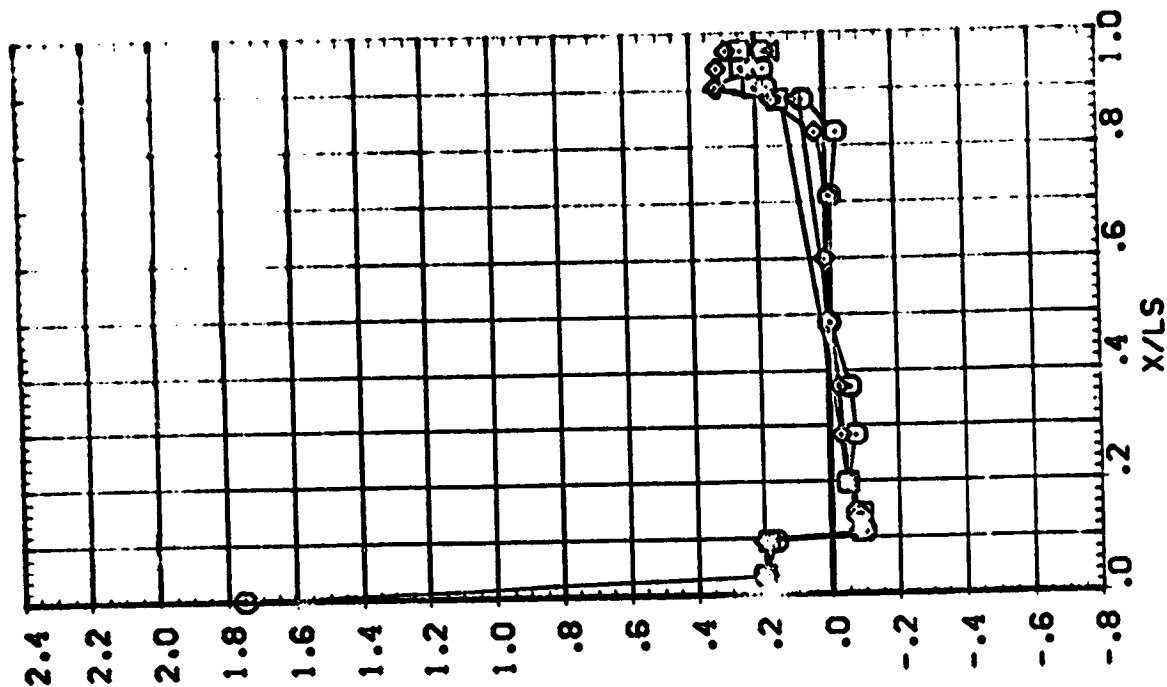
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AVES 87-707 :A9 C2A + S3 + '9 SRM BOOSTER

(RBNSC:)

PARAMETER VALUES
 BETAT .000 298.12
 RUDDER .000 0.00
 RUDDER .000 0.00

SYMBOLS
 ALPHAT MACH
 -4.000 2.499
 45.000
 95.000
 135.000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

(RBN50:)

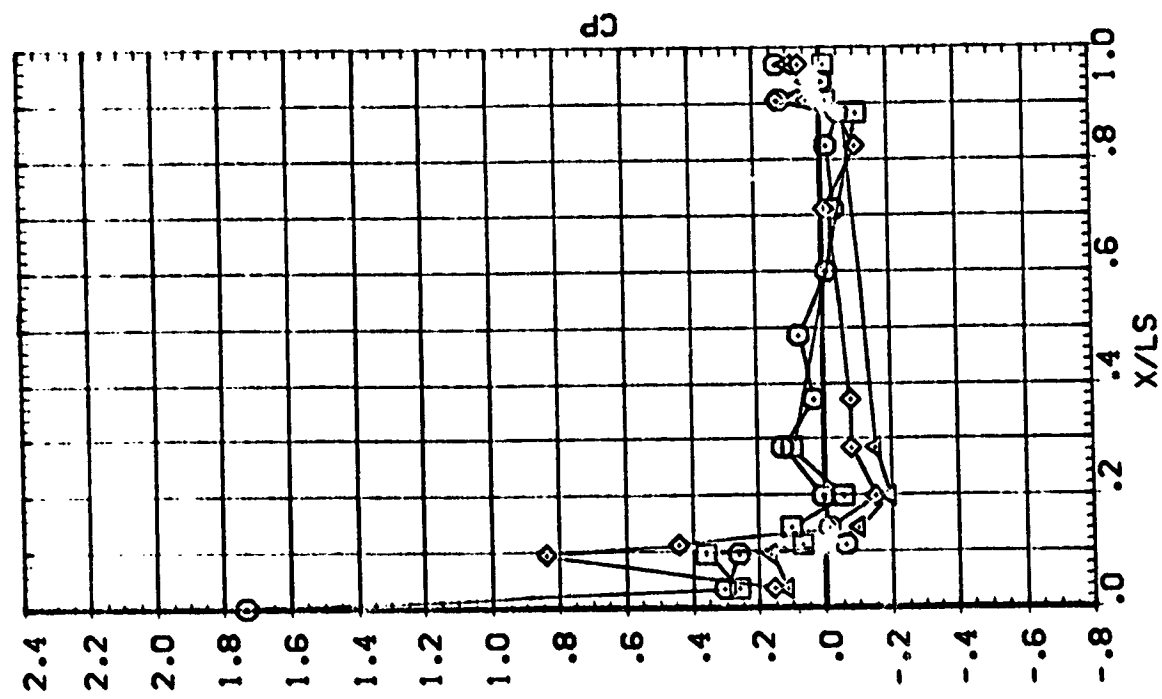
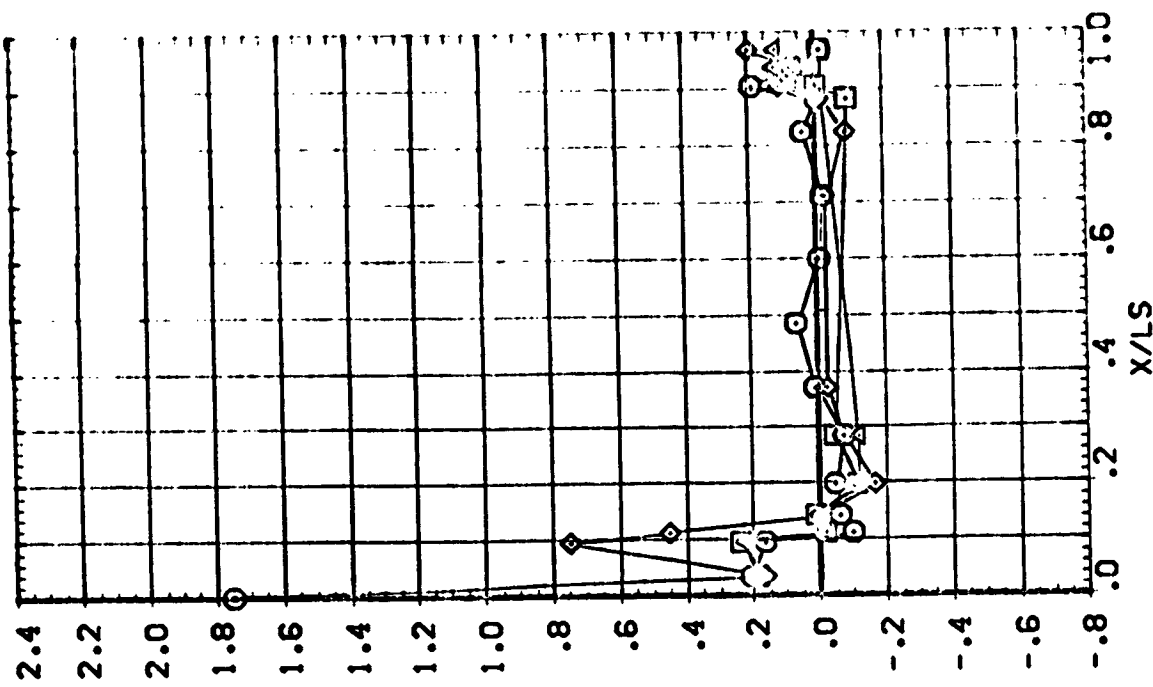
AVES 87-707 :A9 32A + S3 + '9 SRV BOOSTER

PARAMETER VALUES
 BETAT 1.000 1.000
 RUDER 1.000 1.000
 RUDLR 1.000 1.000

SYSC-
 ()
 O
 A

ALPHA 4.030 2.498
 WACH 1.000 1.000

180.000
 775.000
 775.000
 315.000



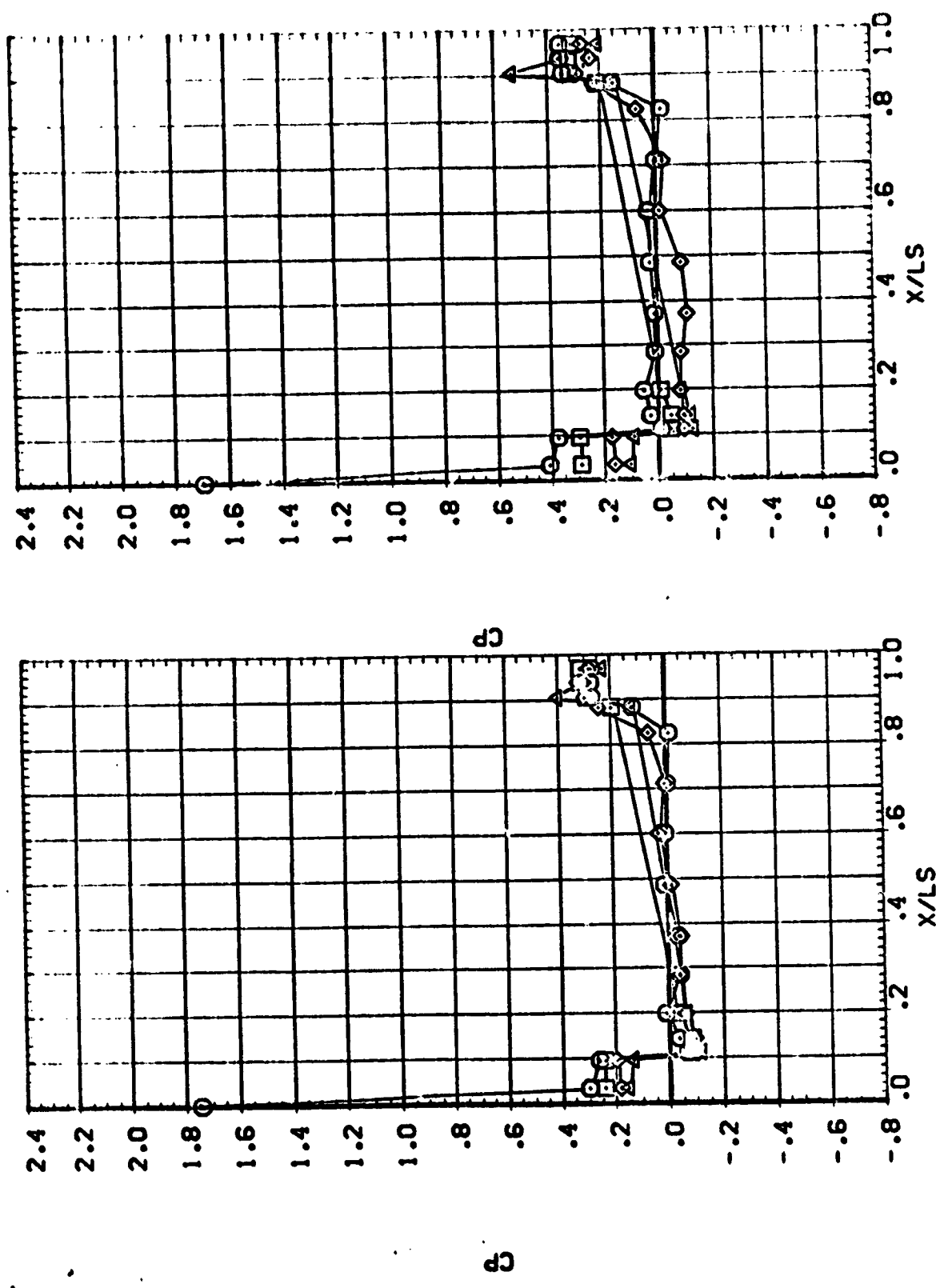
LONGITUDINAL DISTRIBUTION OF SRV BOOSTER PRESSURES

AVES 87-707 :A9 C2A + S3 + 19 SRM BOOSTER

(RBN501)

PARAMETRIC VALUES
 BETAT .000 99815
 RUDER .000 ELEVEN
 RUDLR .000

SYSC
 .000
 45.000
 90.000
 135.000
 ALPHA 3.800 2.498
 8.010



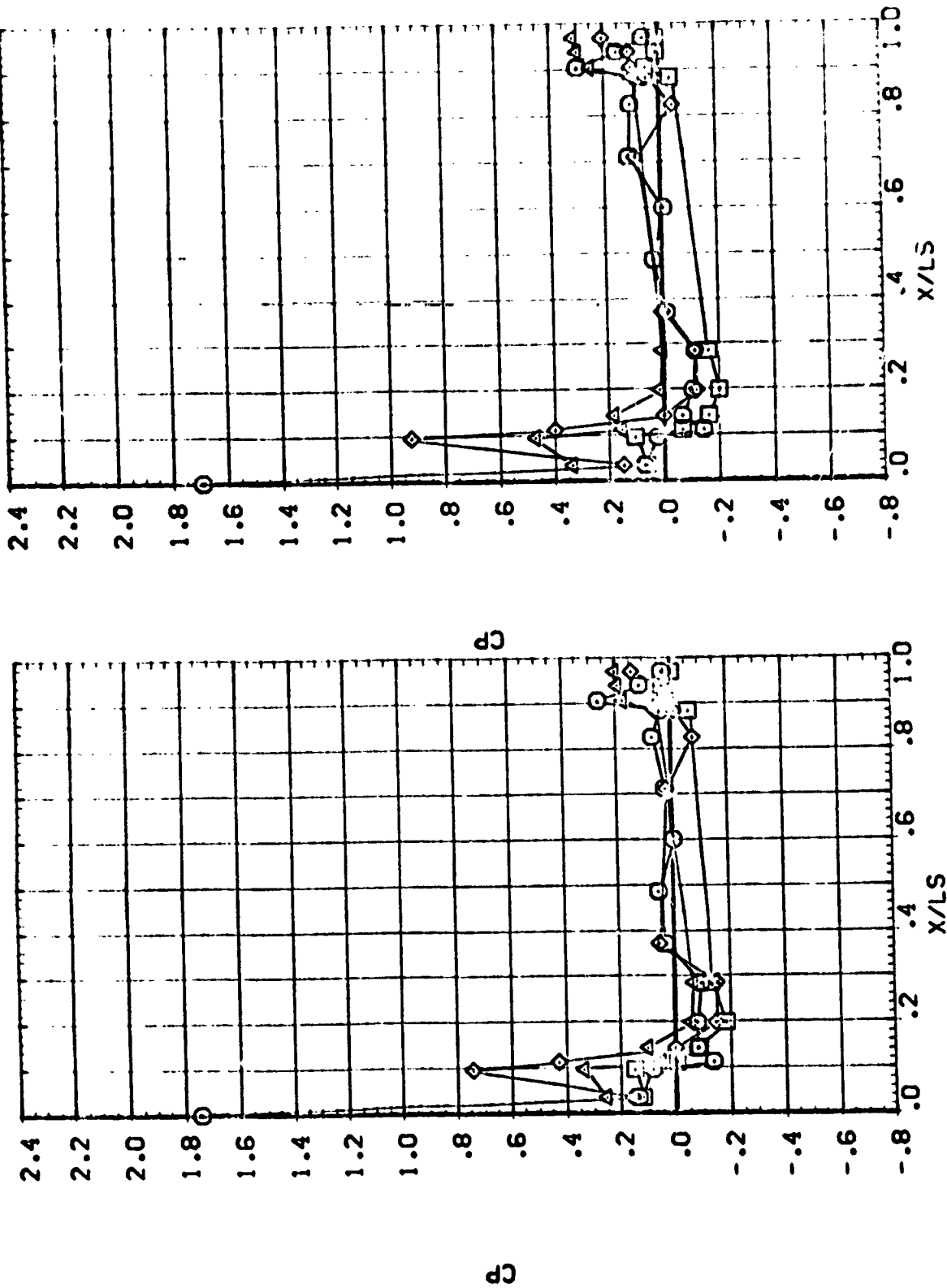
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AVES 87-107 :A9 C7A - S3 - '9 SRV BOOSTER (R3\SC:)

SWRZ-
 180.000
 275.000
 370.000
 375.000

ALBAT WACH
 3.800 2.498
 8.000

PARAMETRIC VALUES
 BETA
 RUDER
 RUDER



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AVES 87-707 :A9 C2A + S3 + T9 SRM BOOSTER

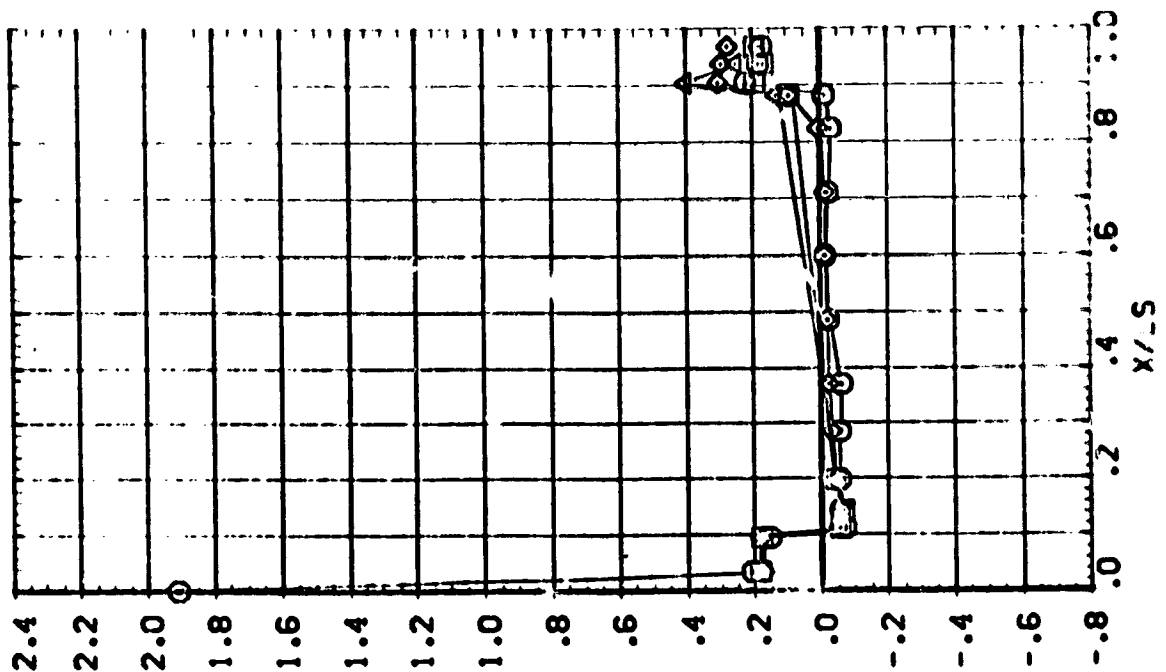
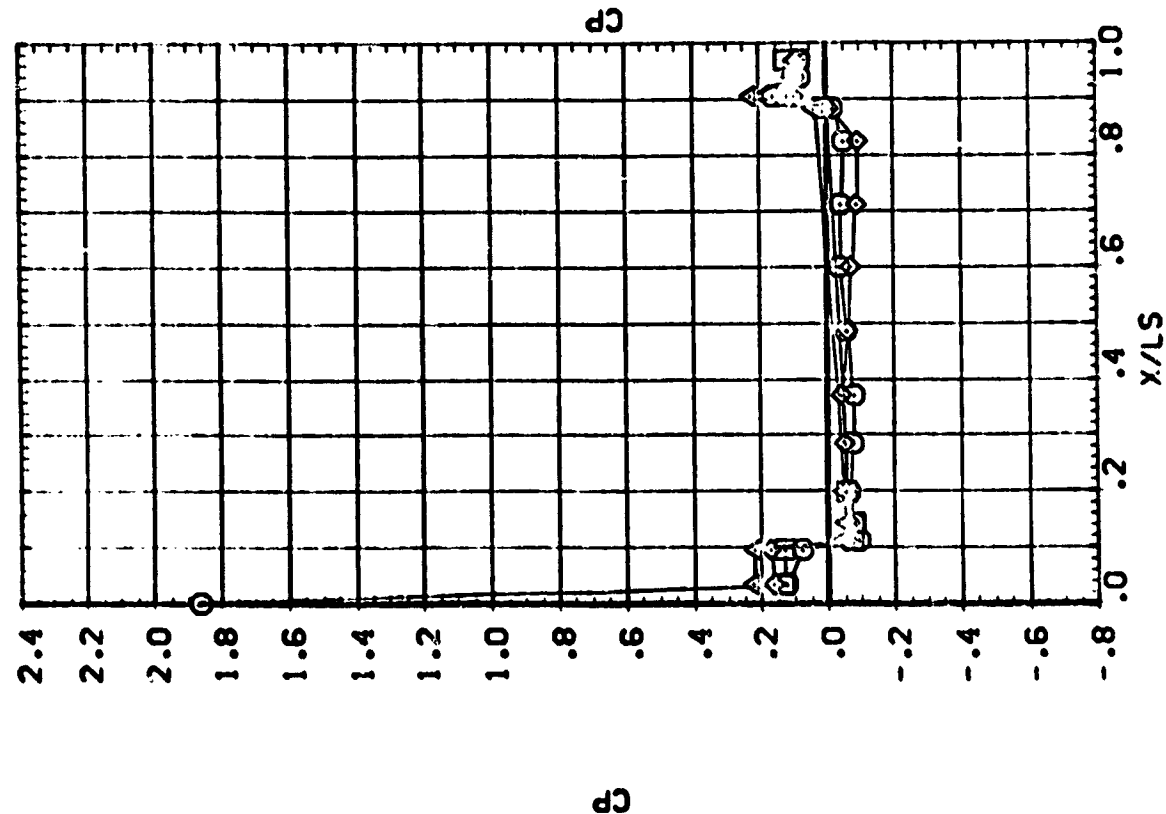
(RENSC:)

SYNOPSIS

ALPHA: 4.073
WAC: 2.999
45.000
92.000
135.000

BEAT
RUDER
RUDER

PARAMETER VALUES
0.000
0.000
0.000
0.000



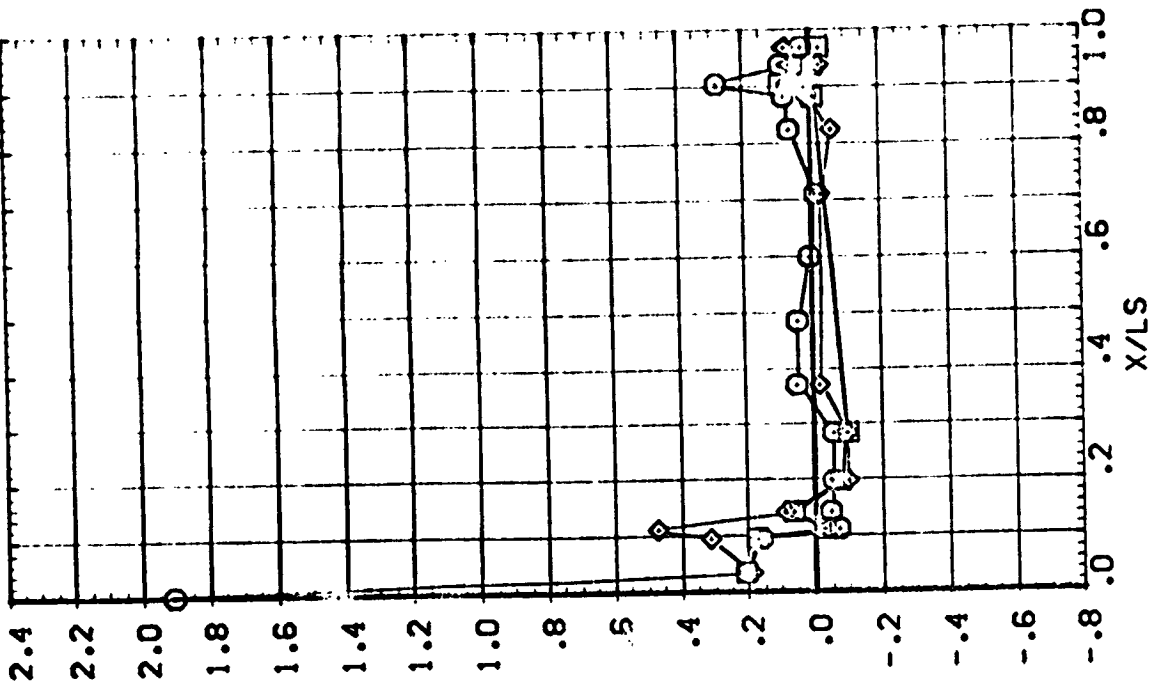
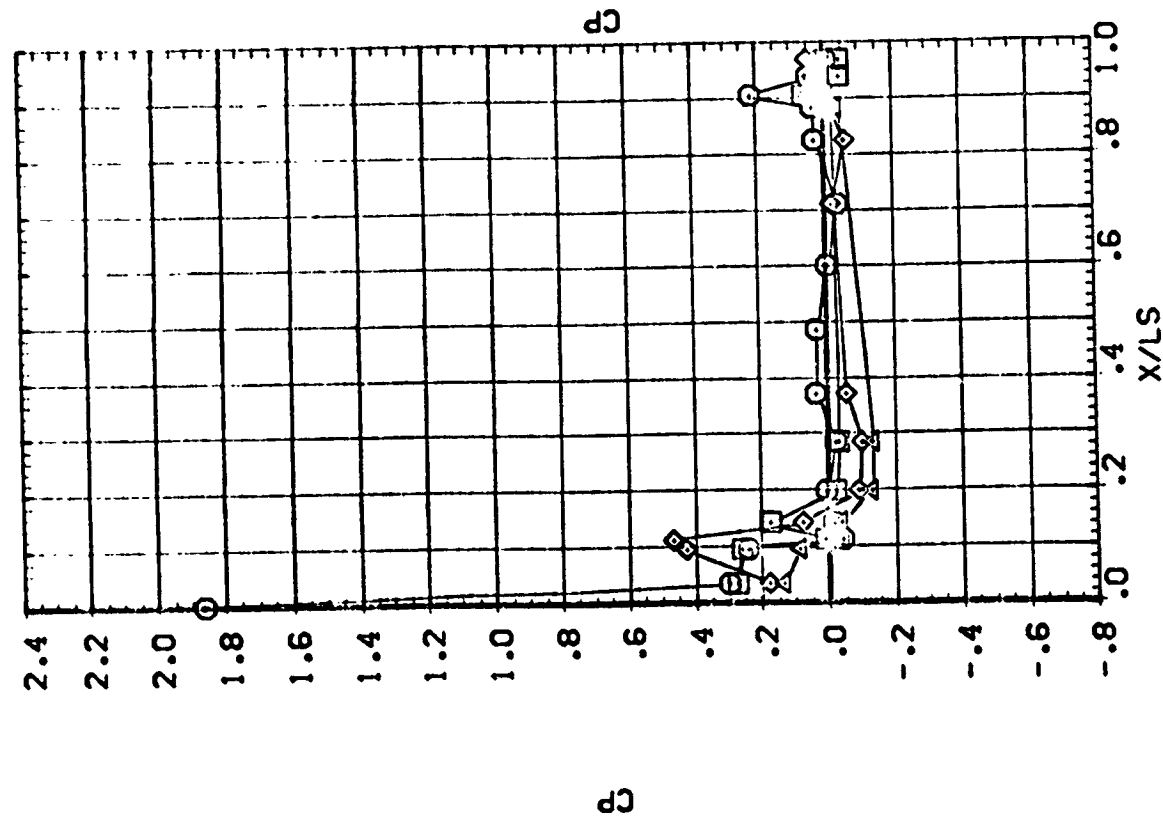
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

S-VEG
180.000
275.000
770.000
315.000

ALPHA
-4.070
-0.010

MACH
2.999

BETA
RADIUS
RADIUS
BETA
RADIUS
RADIUS
BETA
RADIUS
RADIUS

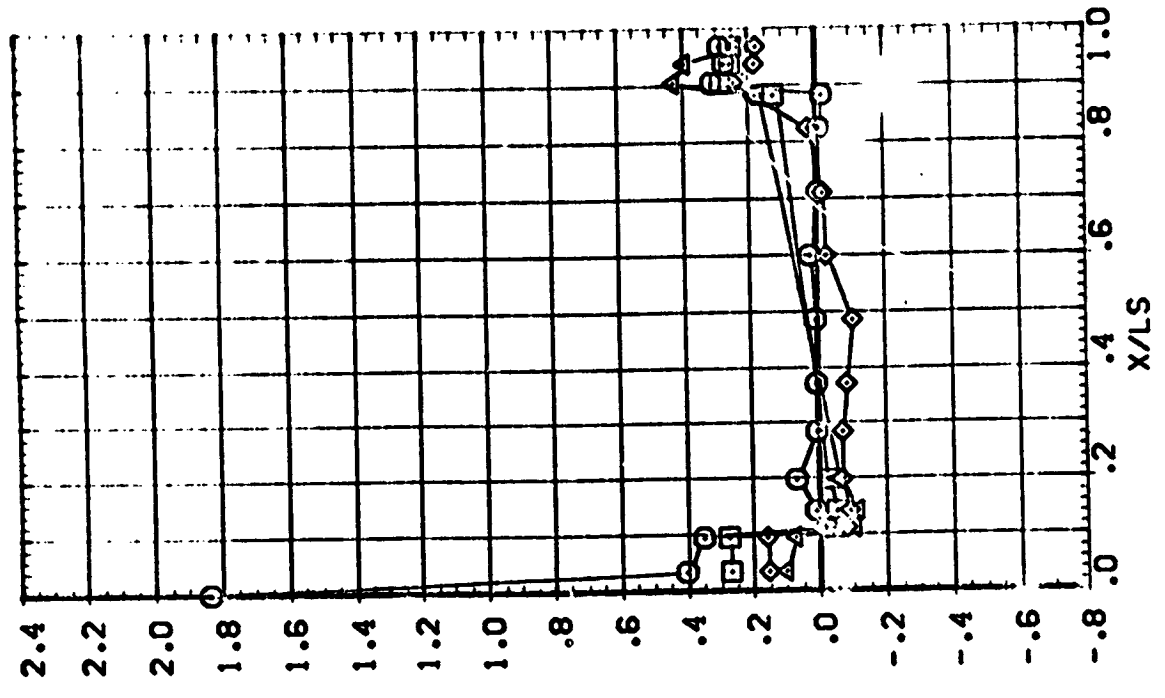
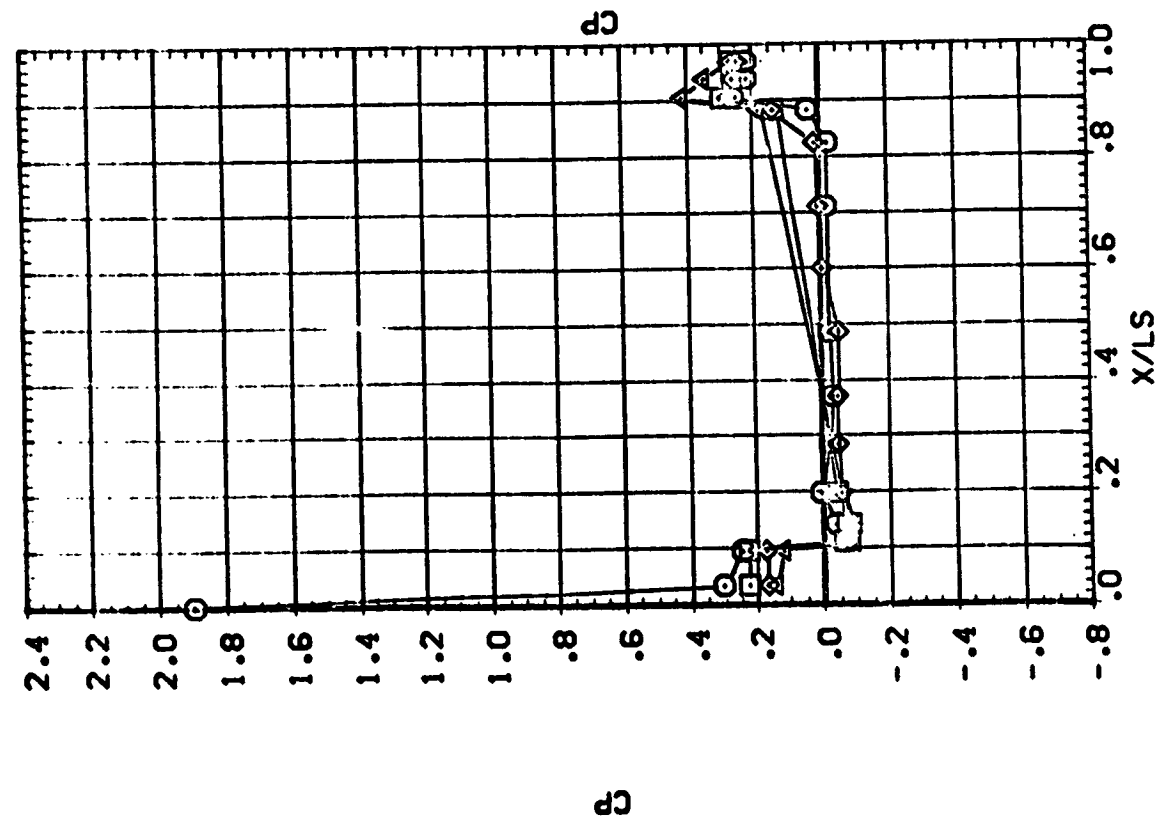


LONGITUDINAL DISTRIBUTION OF SRV BOOSTER PRESSURES

SVSC:
0
1
2
3

ALPAC 3.950 8.000
WAC 2.999

PARAMETRIC VALUES
BETAT .000 ORBINC .500
RUDER .000 ELEVON .000
RUDFLR .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

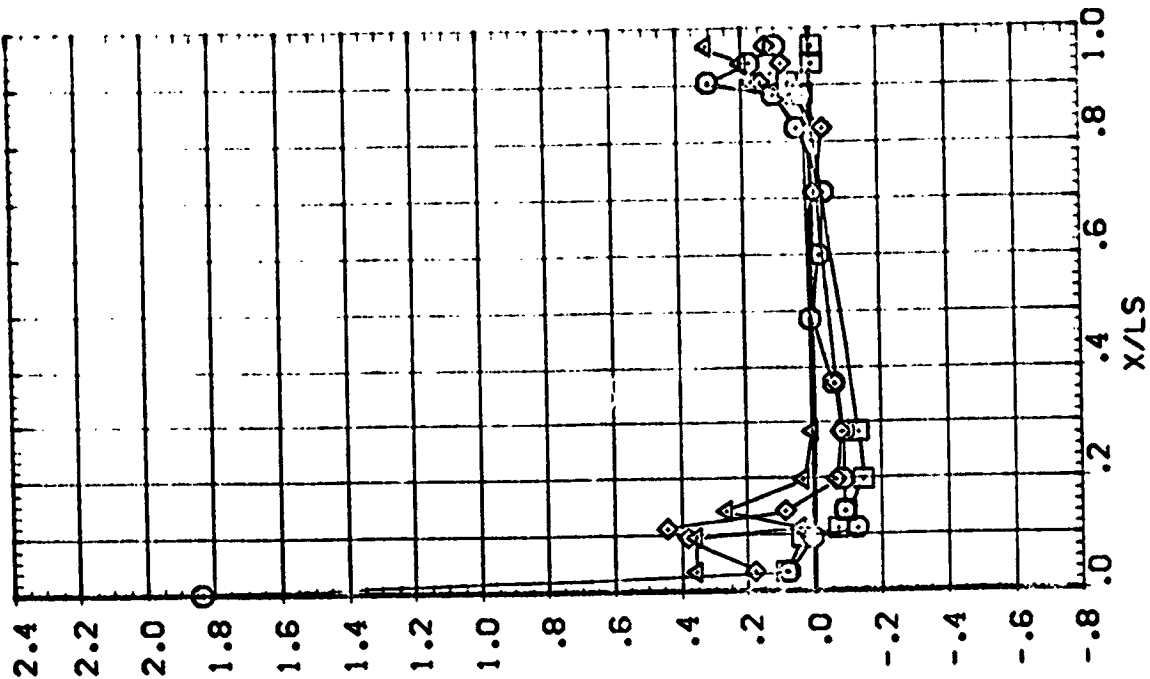
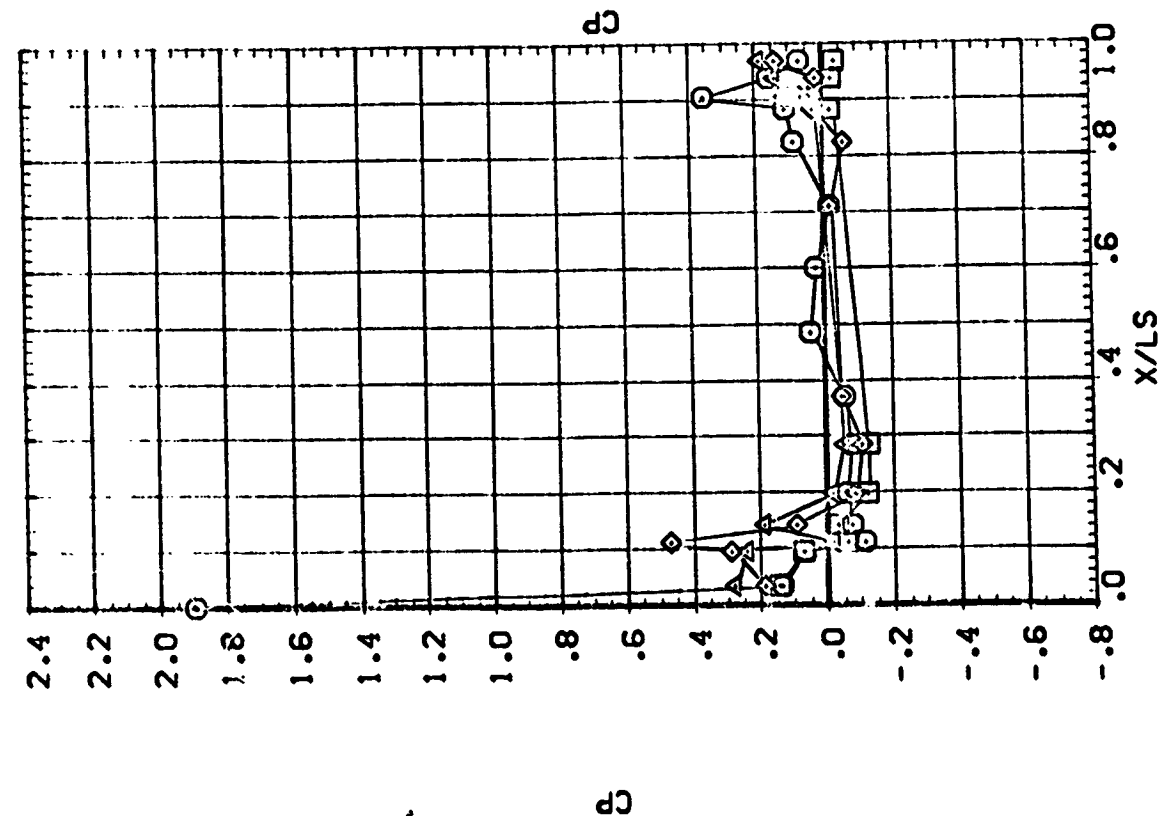
SWITCH
 ()
 ()
 ()
 ()

ALPHA
 3.950
 8.000

BEAT
 RUDER
 RUDER

PARAMETER VALUES

3500
 1000



LONGITUDINAL DISTRIBUTION OF SRV BOOSTER PRESSURES

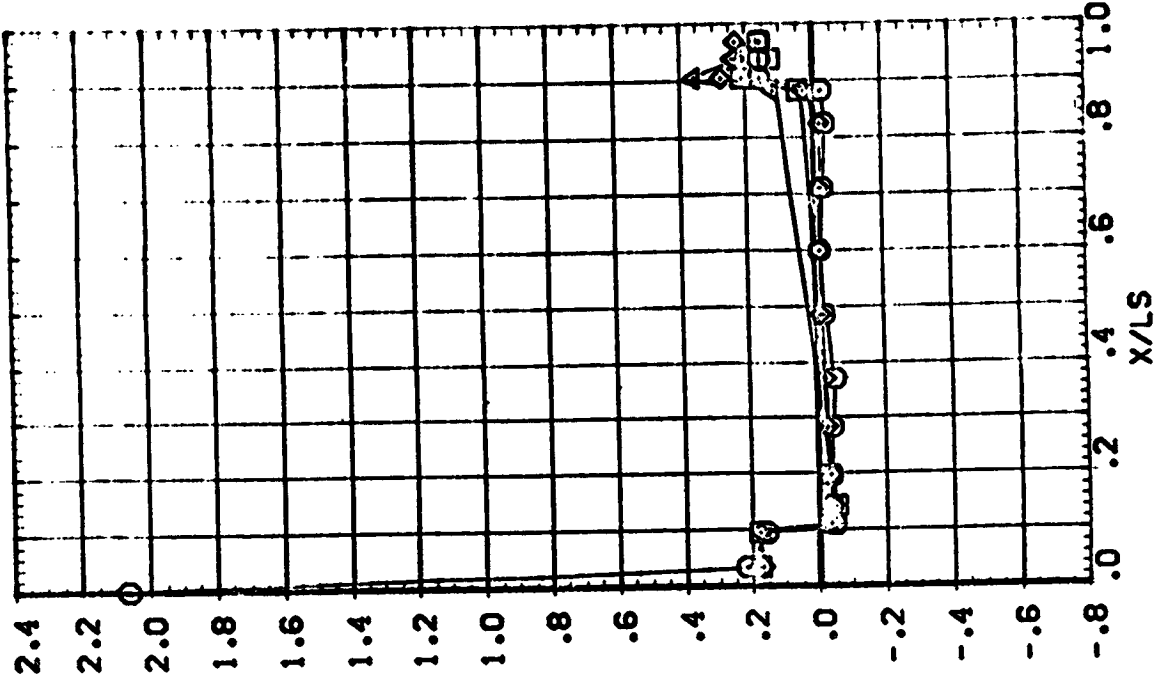
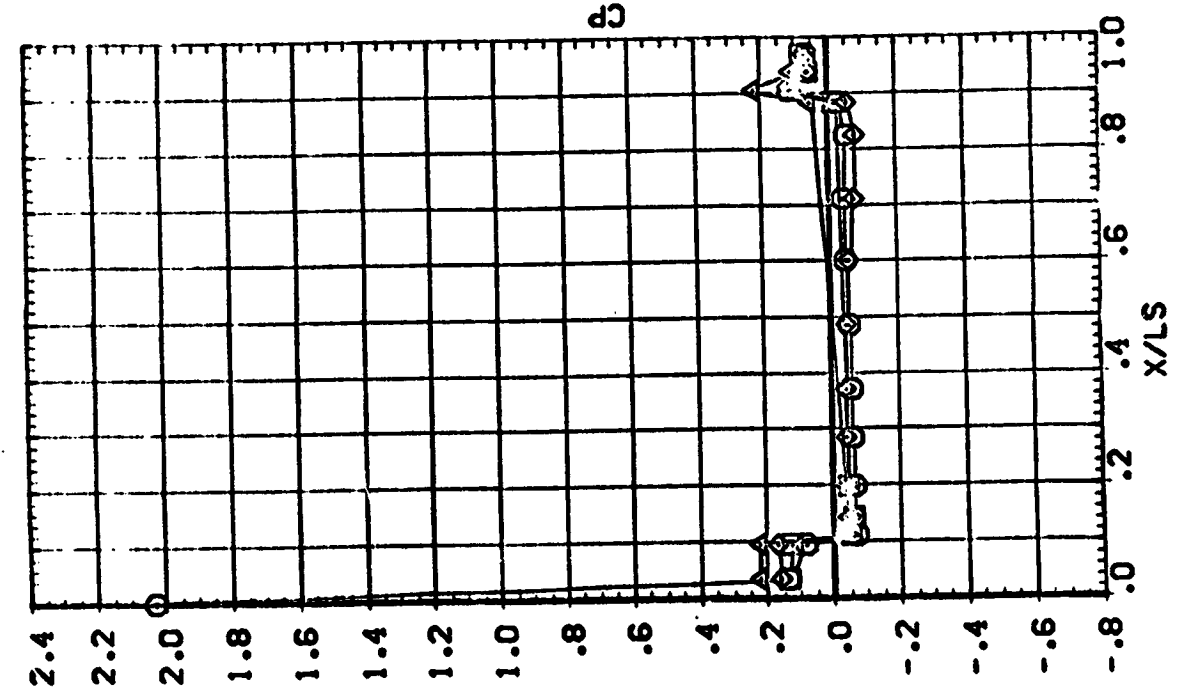
AVES 87-707 1A9 C2A - S3 - 19 SRM BOOSTER

(RBNSC:)

SYSC-
PH: .000
45.000
90.000
135.000

ALPHAT WAC-
-4.070 3.502
-.030

PARAMETRIC VALUES
BETAT .000 DRBINC .500
RUDGER .000 ELEVSN .000
RUDFLR .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

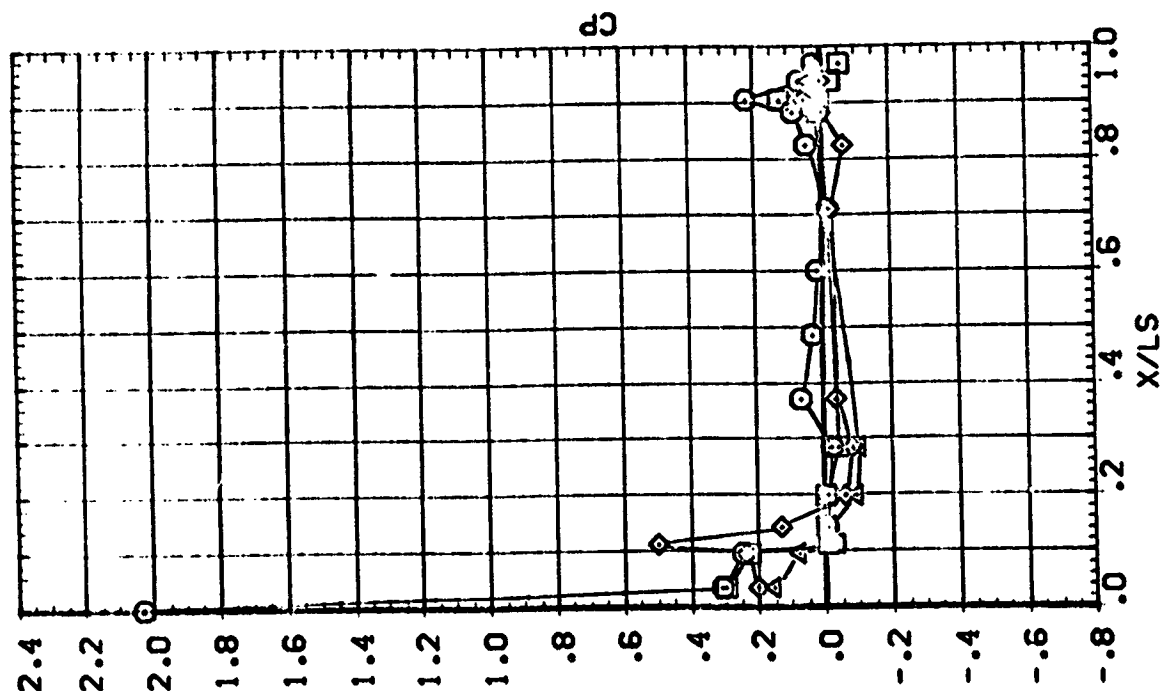
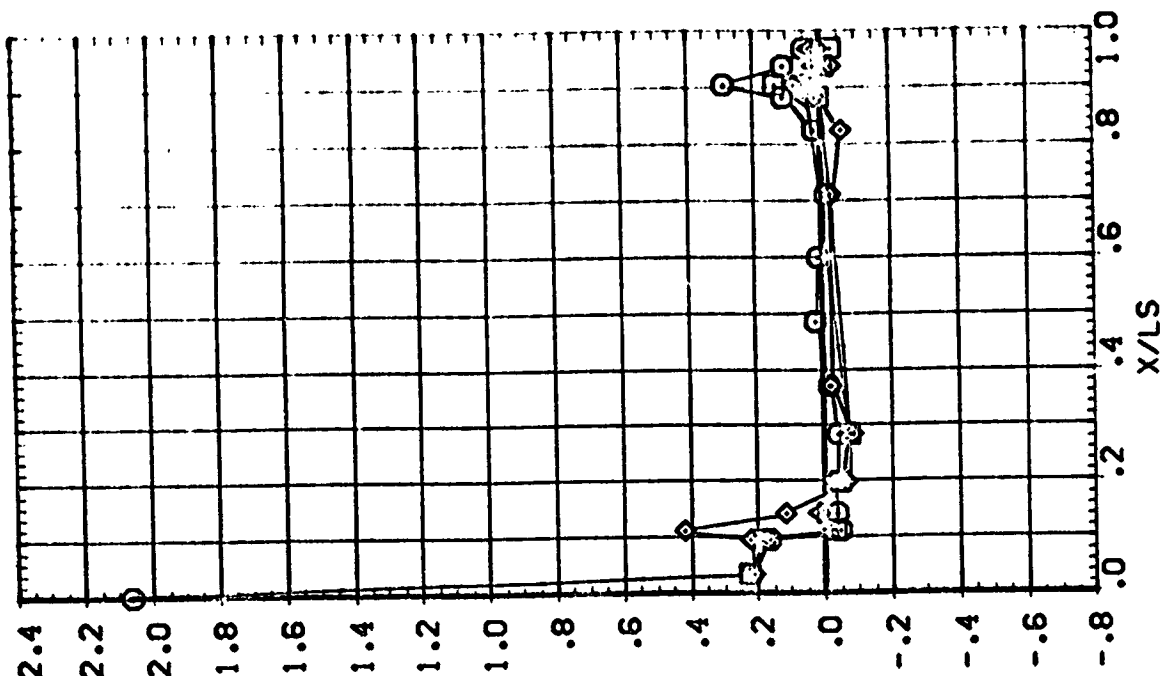
[RBNSC1]

AVES 87-707 :A9 C2A - S3 + 19 SRV BOOSTER

PARAMETER VALUES
 BETAT .000 298.12
 RUOER .000 1.000
 RUOTLR .000 1.000

SVSC
 P1: 180.000
 225.000
 270.000
 315.000

ALPHA MACH
 -4.973 3.507
 -.030



LONGITUDINAL DISTRIBUTION OF SRV BOOSTER PRESSURES

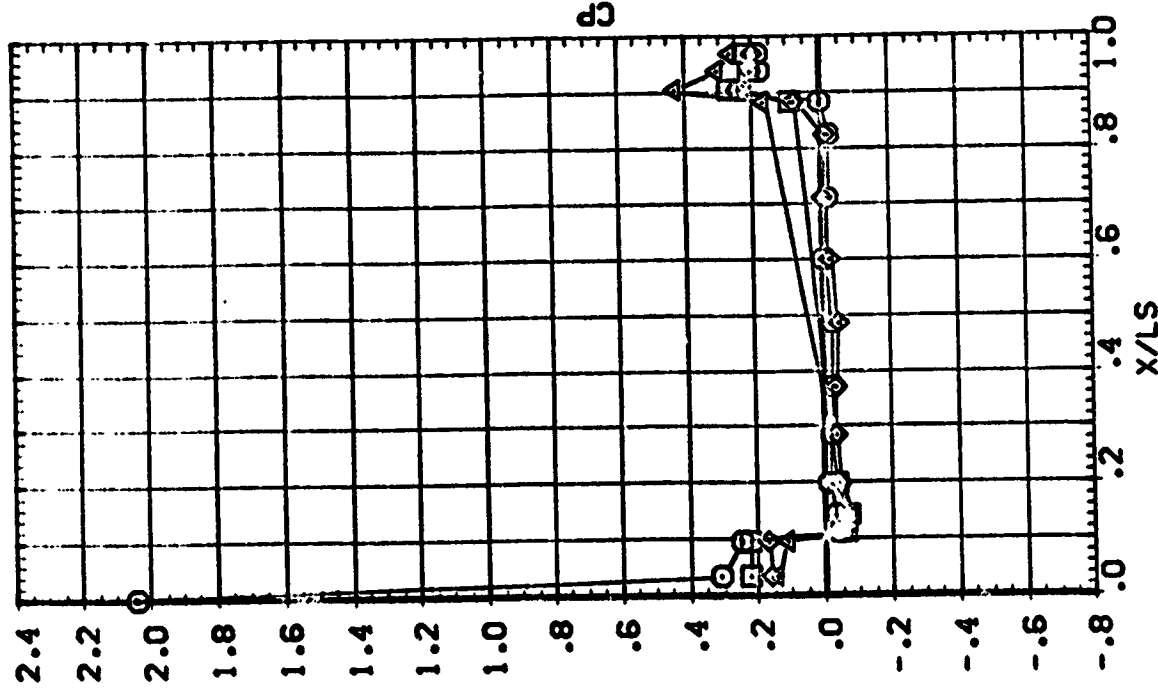
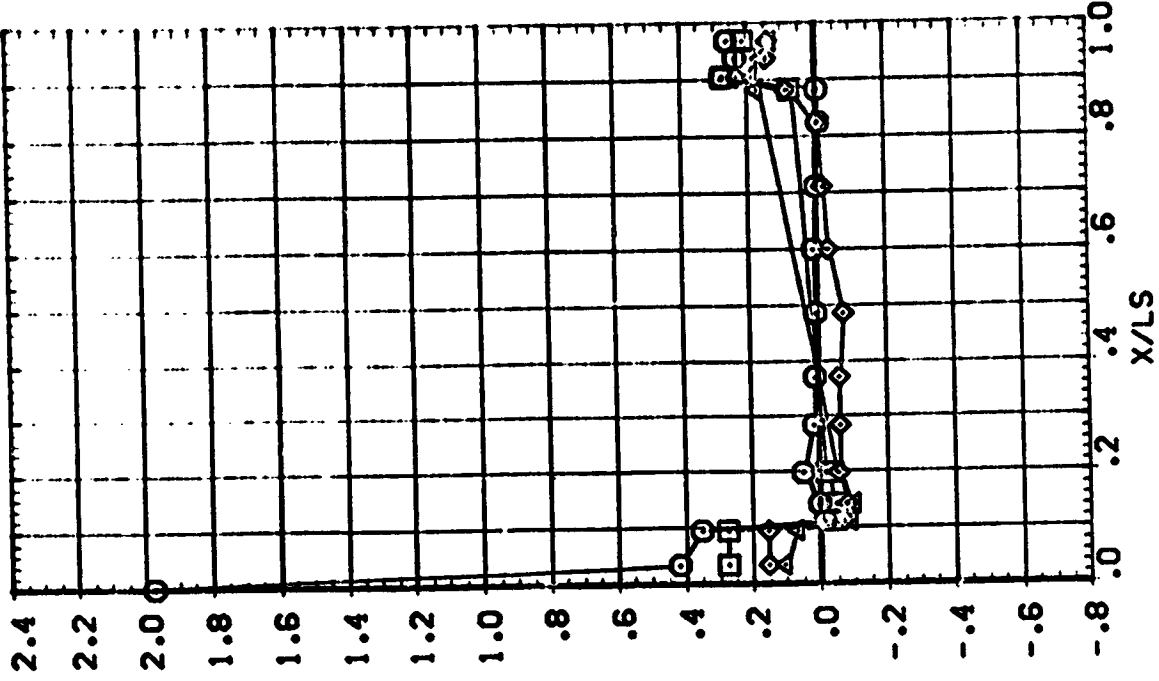
AVES 87-707 1A9 C2A - S3 + 19 SRM BOOSTER

(R3\SC:)

SYSCAL
 0.000
 45.000
 90.000
 135.000

ALPHAT MACH
 3.950 3.502
 8.000

PARAMETRIC VALUES
 BETA* .000 ORBINC .500
 PUDDER .000 ELEVON .000
 RUDLER .000



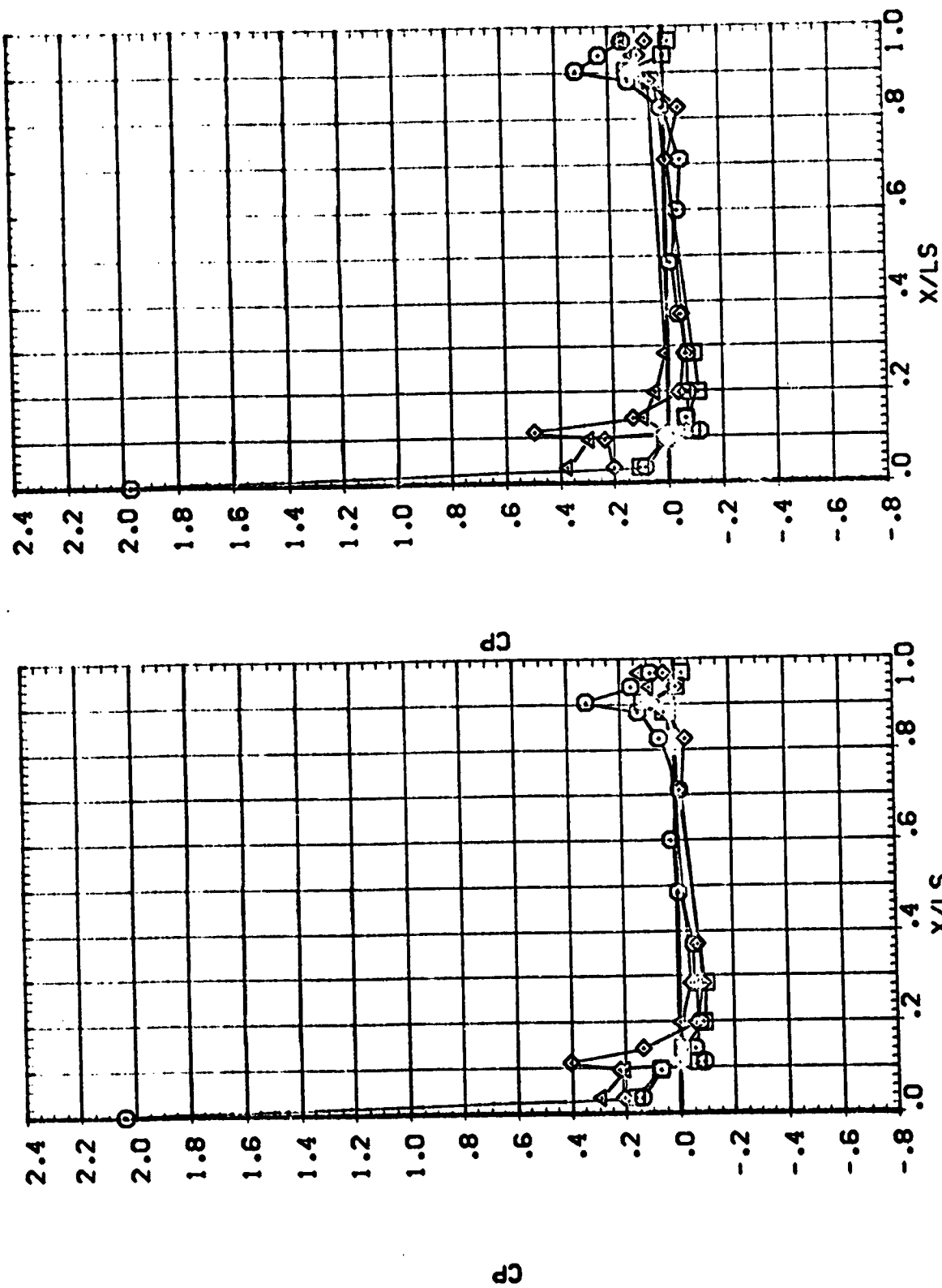
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

SYSC-
 180.000
 275.000
 275.000
 315.000

ALPHA
 3.960
 8.010

PARAMETRIC VALUES
 .000 .000 .000 .000
 .000 .000 .000 .000
 .000 .000 .000 .000

BETAT
 RUDDER
 RUFLR



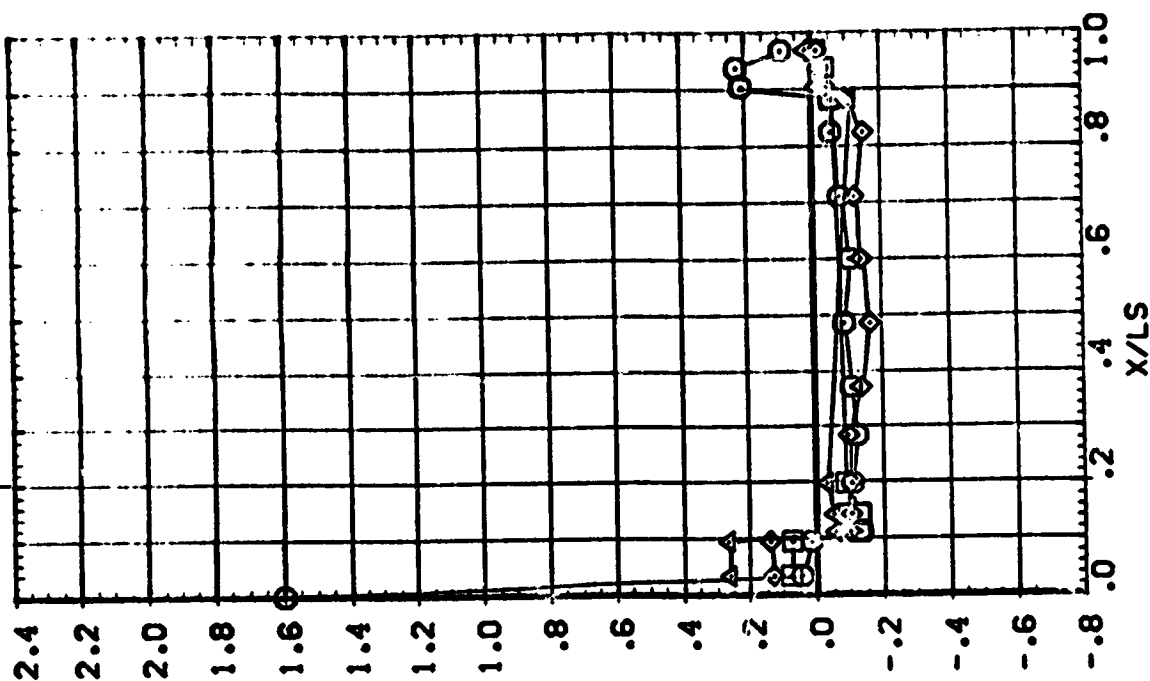
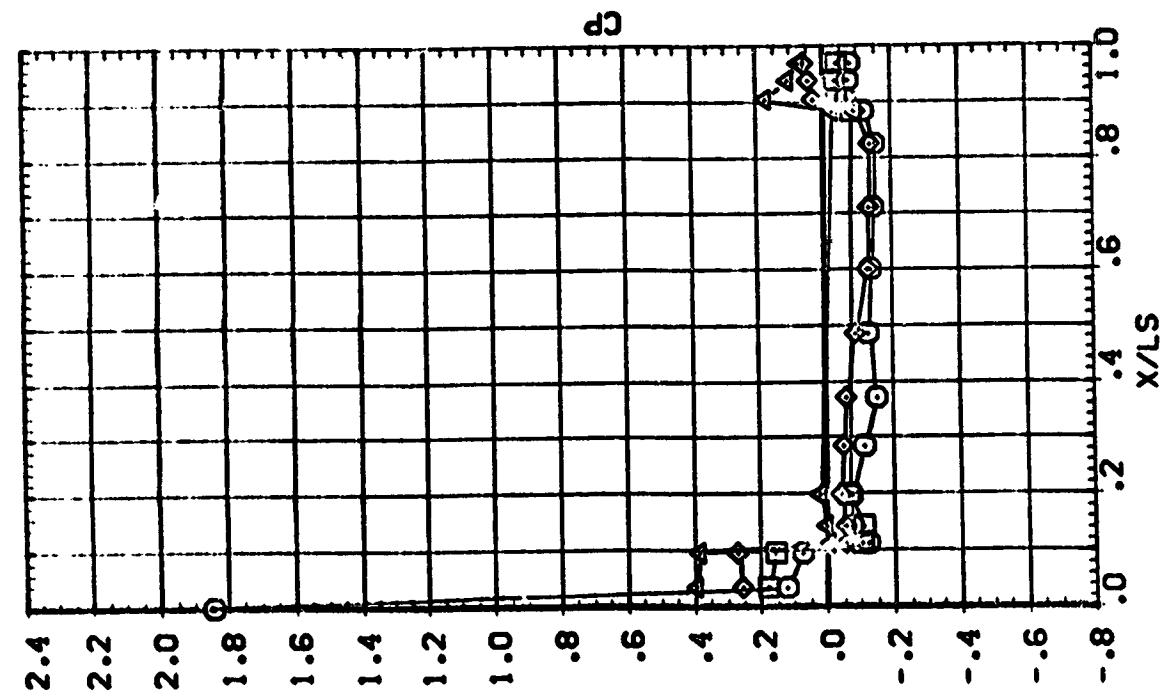
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

(93)SC2:

5.30 7.00 7.35 7.55 8.00

Σ-A	MAC
-4.173	2.498
2.183	

ALPHA	PARAMETER VALUES
RODZ_R	0.000
RODZ_R	0.000
RODZ_R	0.000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

[RBN502]

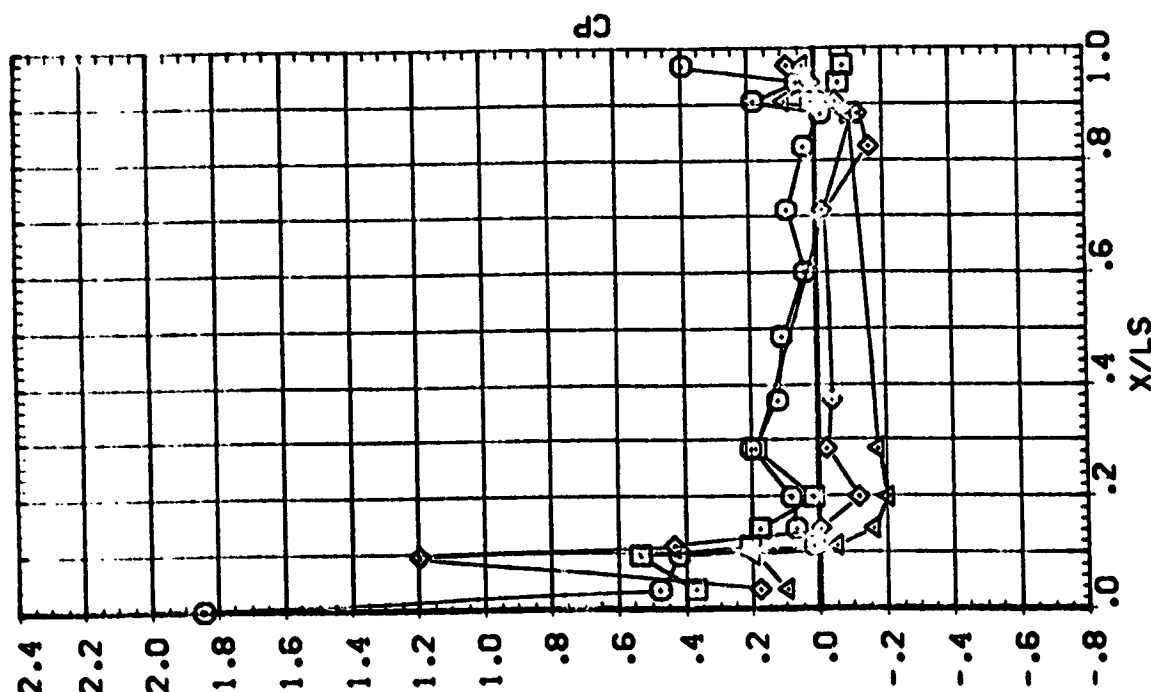
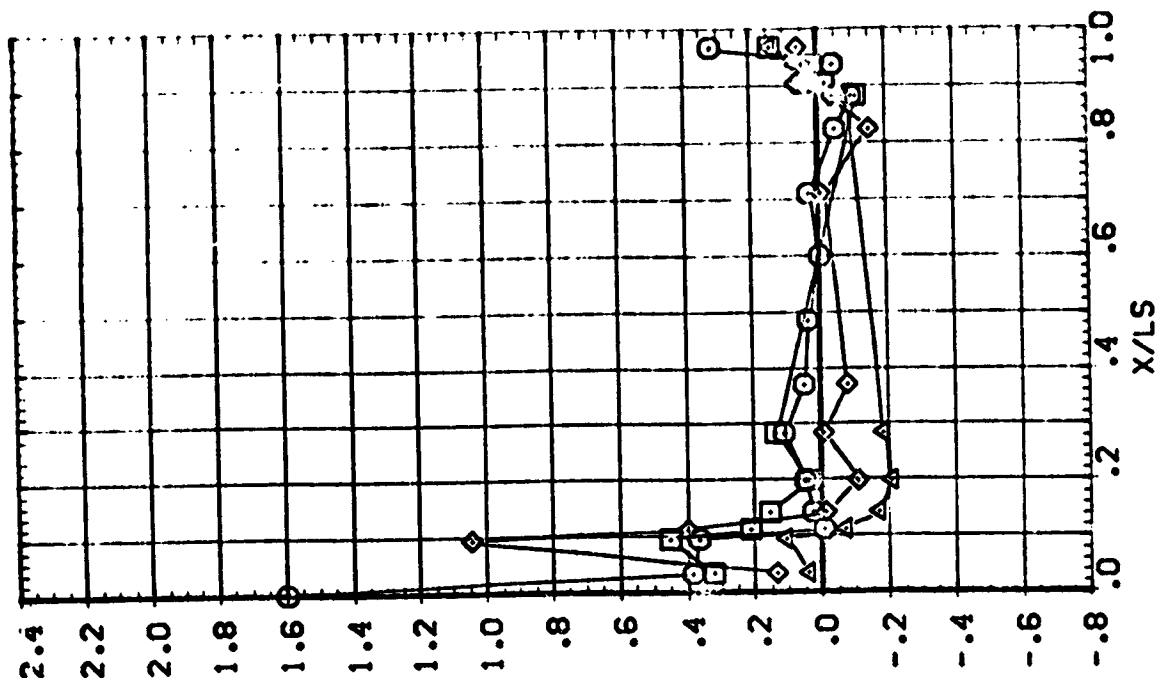
AVES 87-707 :A9 C2A - S3 - 9 SRM BOOSTER

PARAMETER VALUES
 ALPHA: 99.99
 RUDER 1.000
 RUDLR 1.000

SWBC: 185.000
 275.000
 275.000
 315.000

BETA: 4.170
 2.180

VAC: 2.498



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

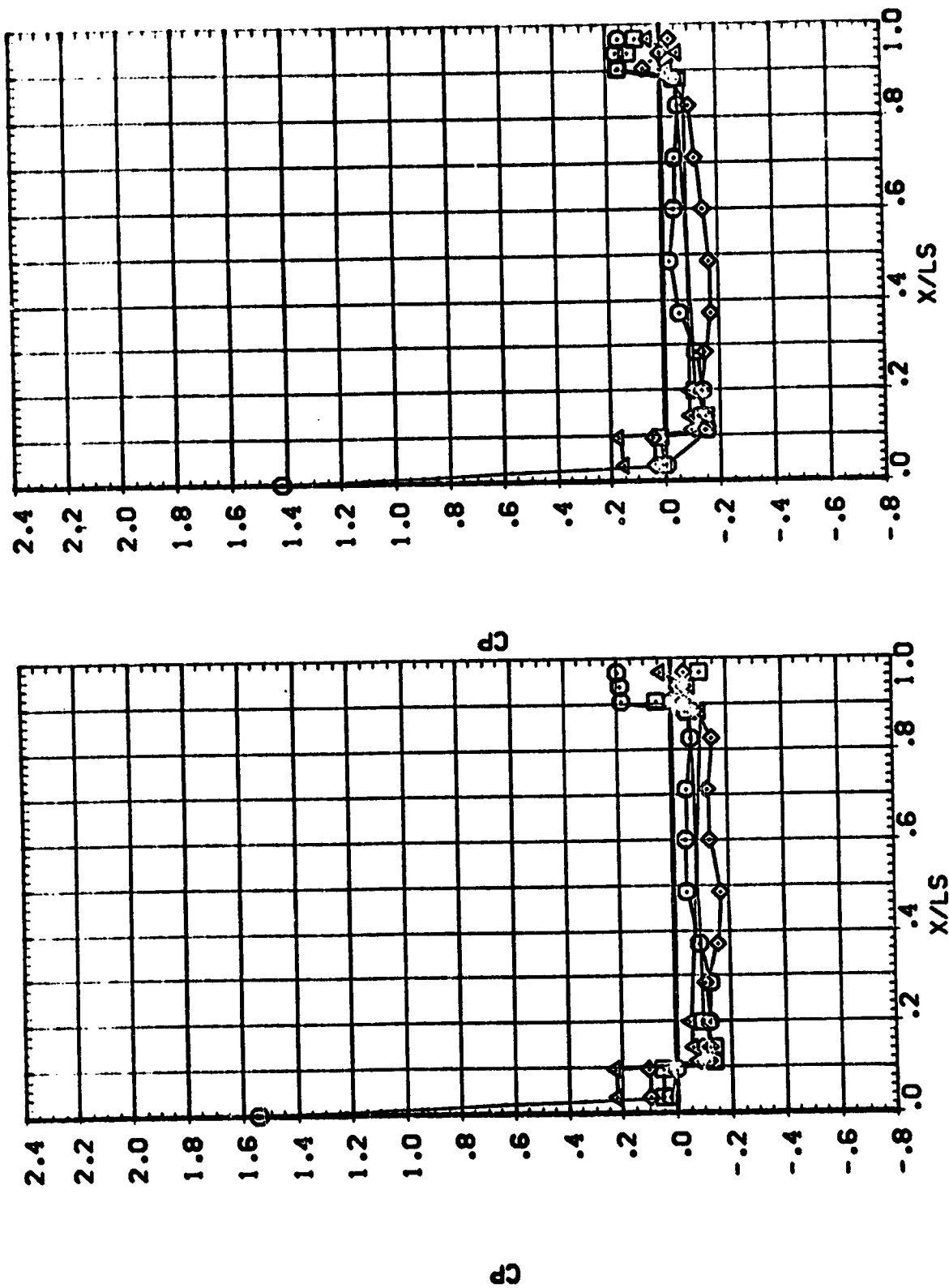
AVES 87-707 :A9 C2A - S3 - 19 SRM BOOSTER

(R8NS02)

SYNO
0.000
45.000
90.000
135.000

RM: SEAT: MACH
.000 4.320 2.498
45.000 8.560

PARAMETRIC VALUES
ALPHAT -8.000 DBBINC .500
RLODR .000 ELEVN .000
RLOFLR .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

(RBNS02)

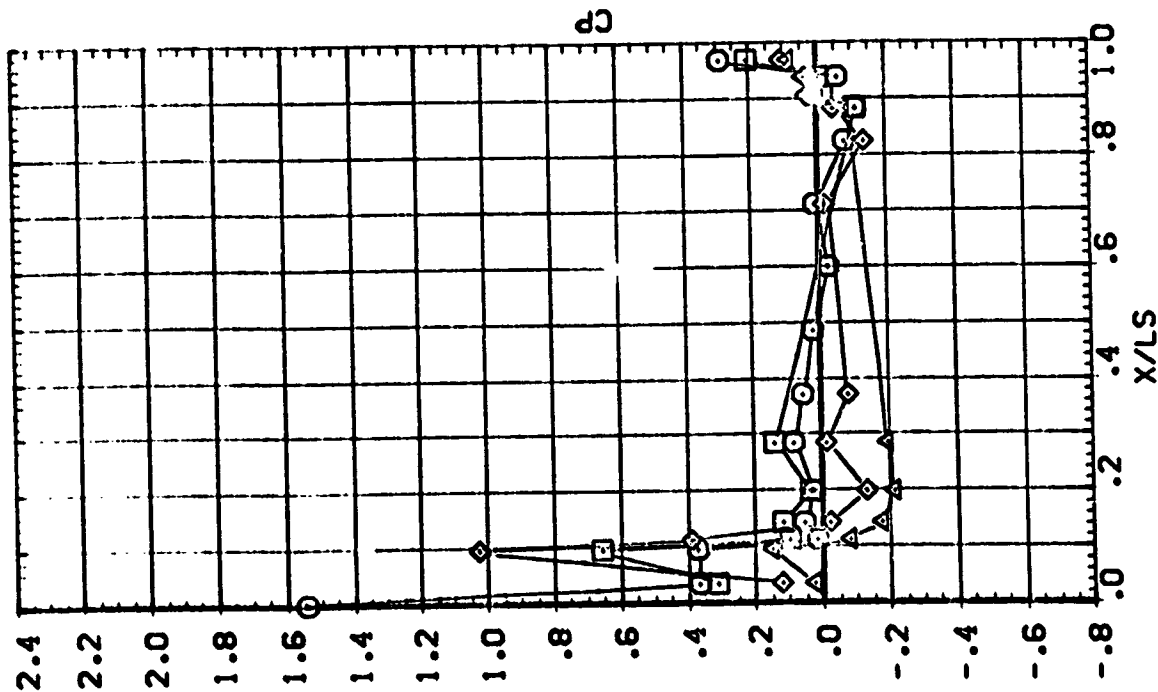
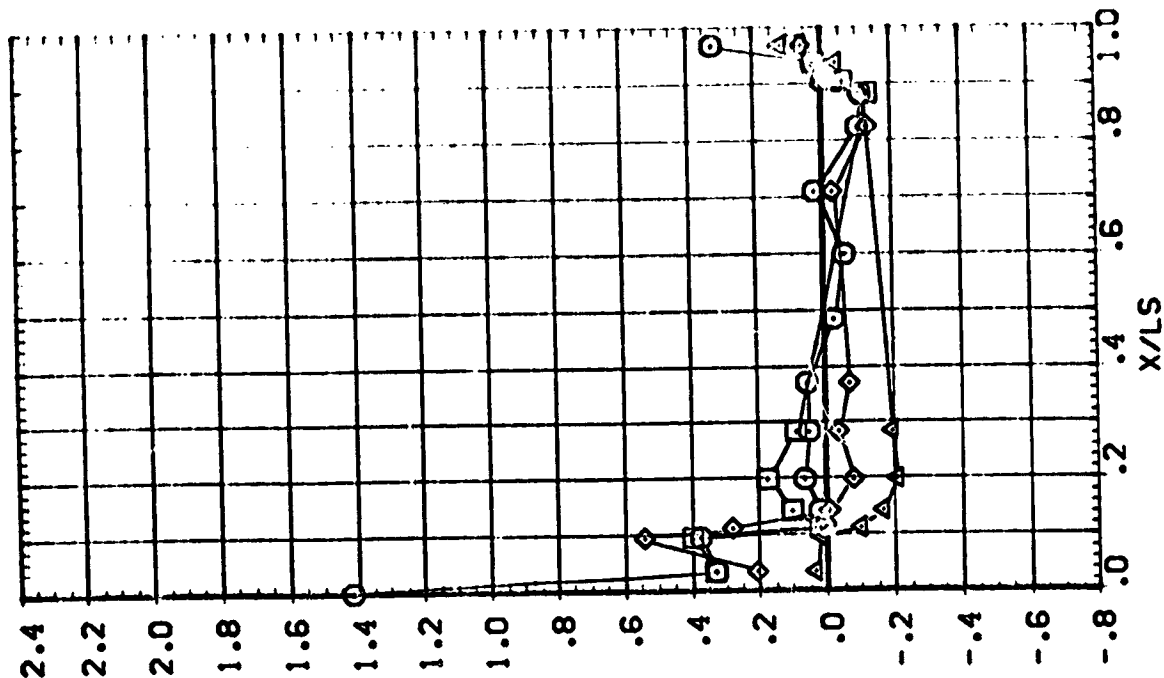
AVES 87-707 1A9 C2A + S3 + T9 SRV BOOSTER

PARAMETRIC VALUES
 -8.000 398.12
 .000 ELEN
 .000

ALPHAT
 RUDDER
 RUOFLR

SYMBOL
 ○
 □
 ◇
 △

BEAT WACH
 4.370 2.498
 8.590

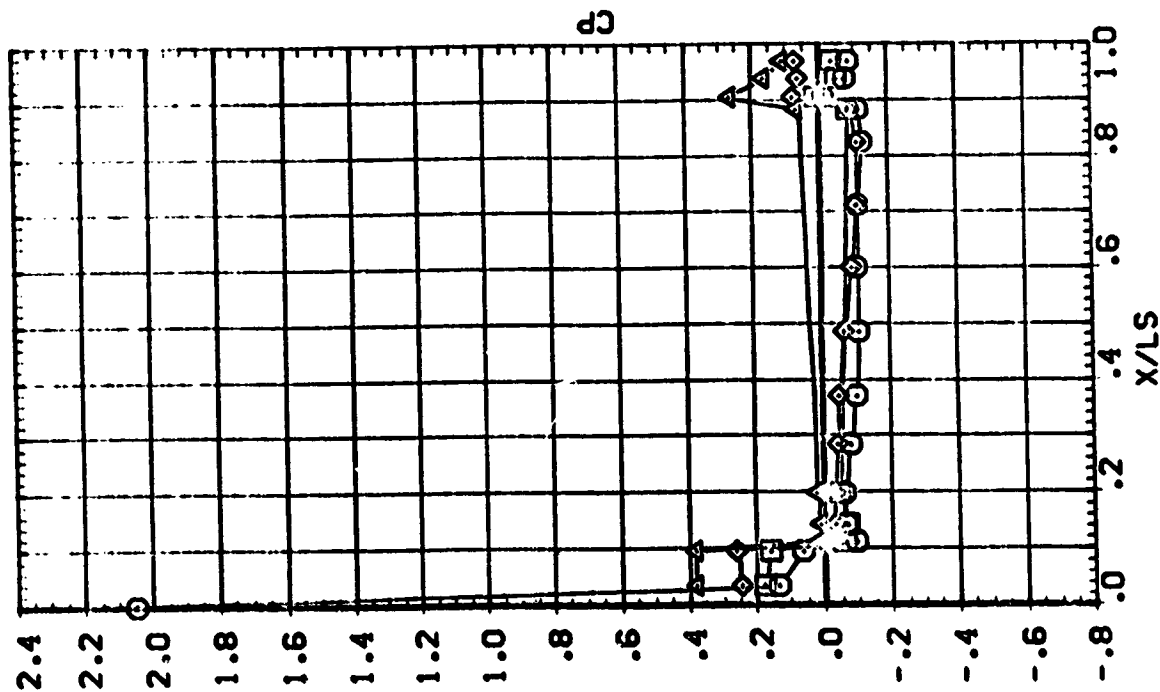
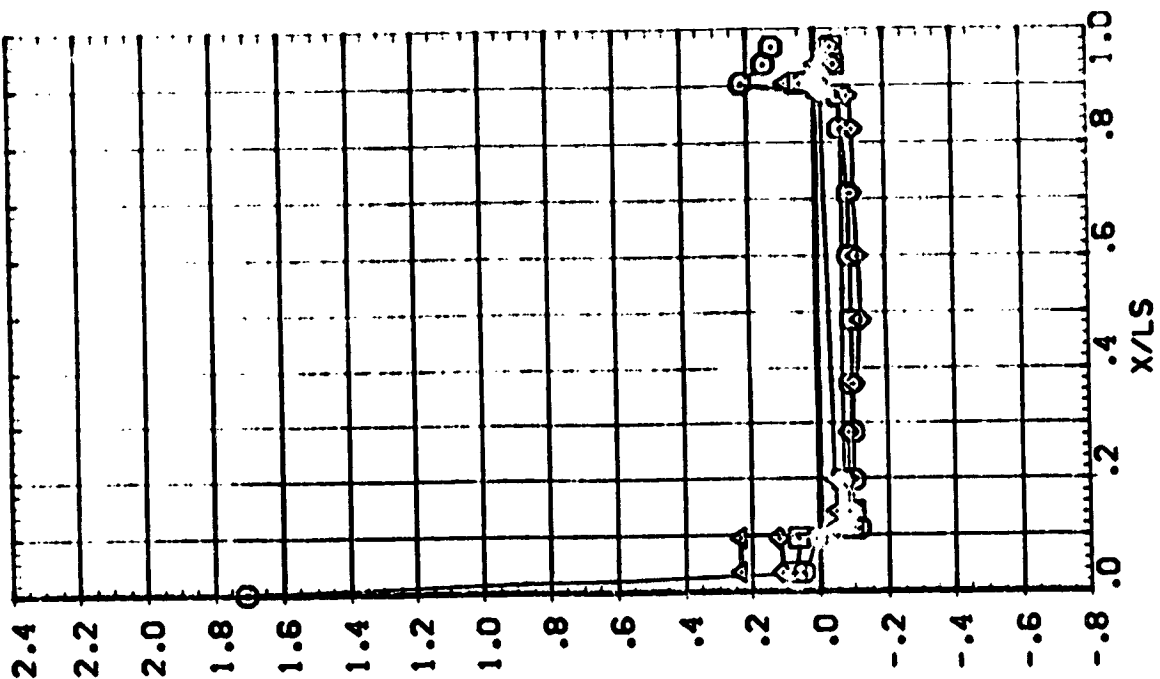


LONGITUDINAL DISTRIBUTION OF SRV BOOSTER PRESSURES

AVES 87-7C7 :A9 C2A - S3 - '9 SRM BOOSTER

(P3\SC2)

SWR	DEL	BETA	MACH	PARAMETRIC VALUES
1	.000	-4.750	2.999	ALPH
2	45.000	2.730		R000
3	90.000			R000
4	135.000			R000
				SRM ELEV
				.500
				.100

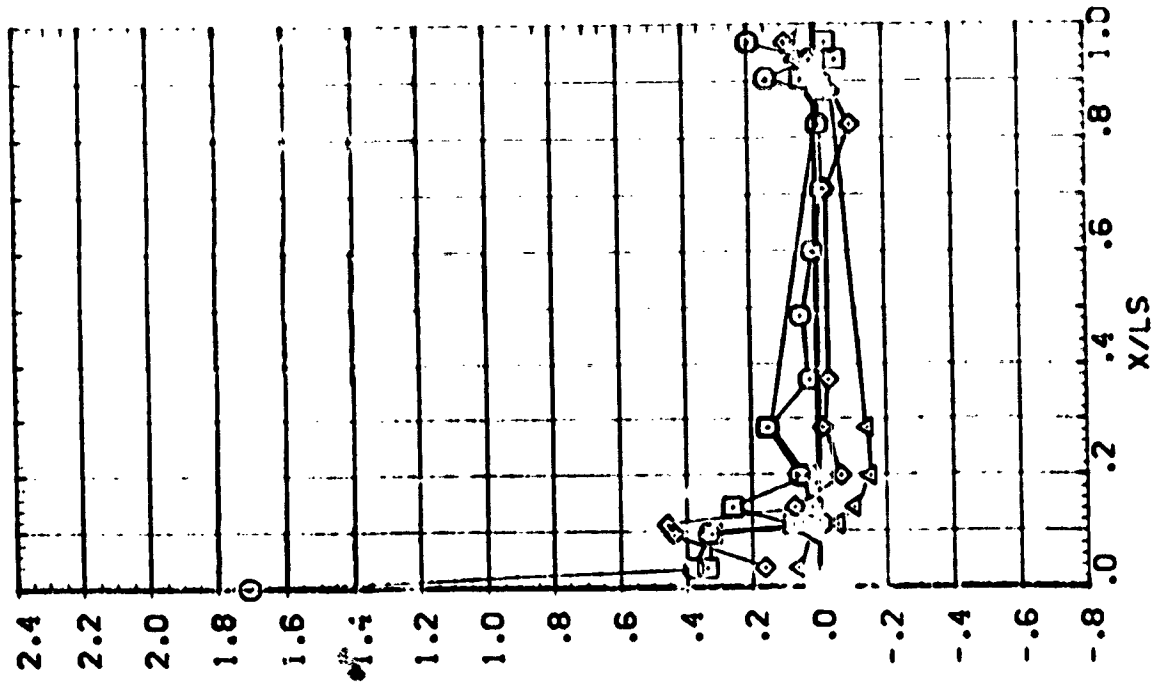
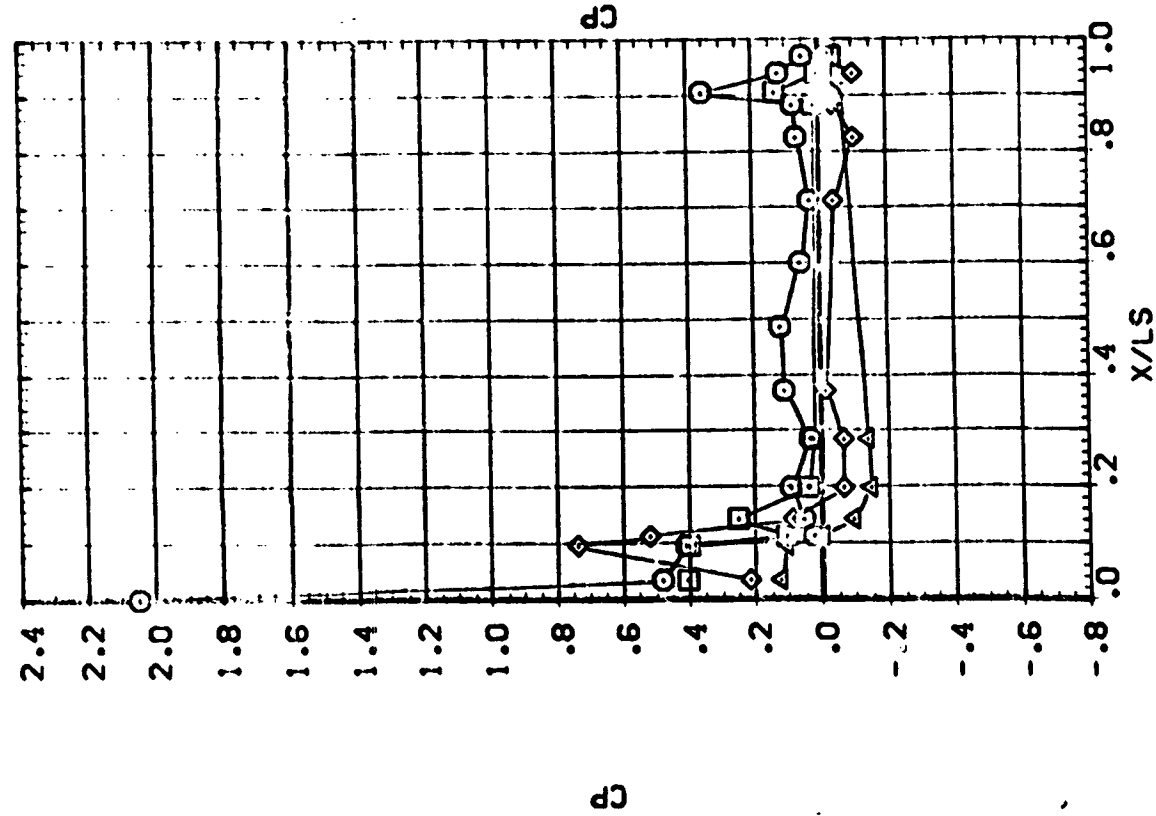


LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AVES 87-7C7 :A9 C2A - S3 - '9 SRM BOOSTER

(RBN5C2)

S.W.P.C. 187.000
 275.000
 715.000
 315.000
 BEAT 4.750
 7.730
 PACH 2.999
 ALPH 8.000
 RADIUS 999.000
 RADIUS 1.000
 ELEV 1.000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

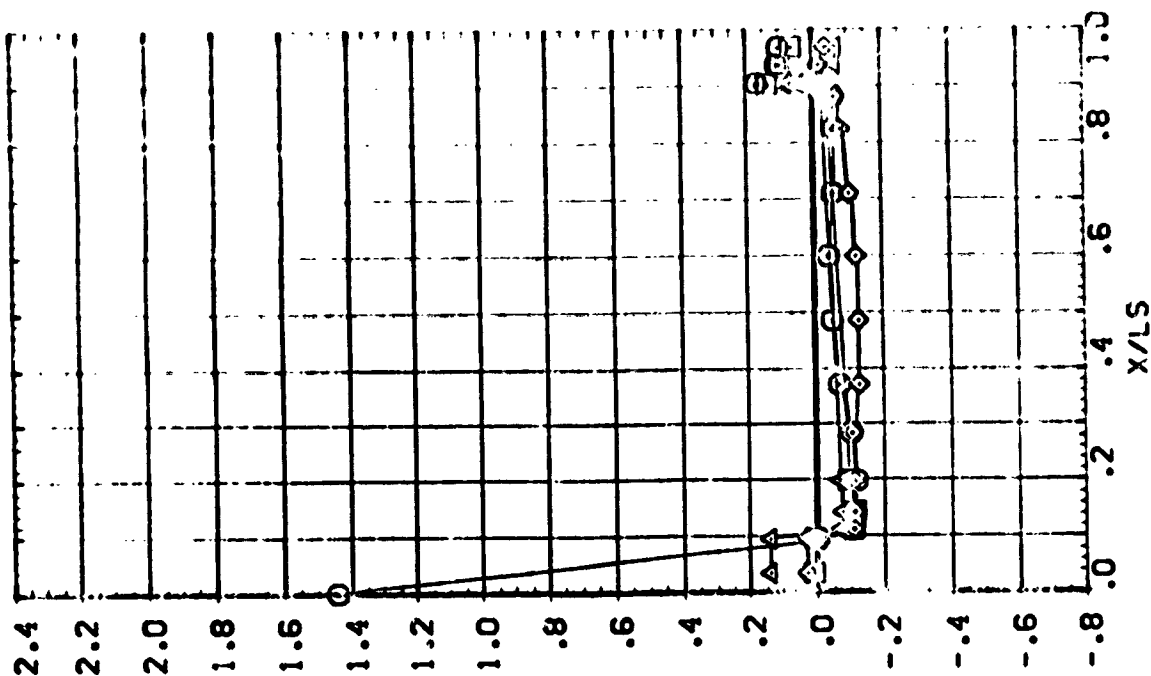
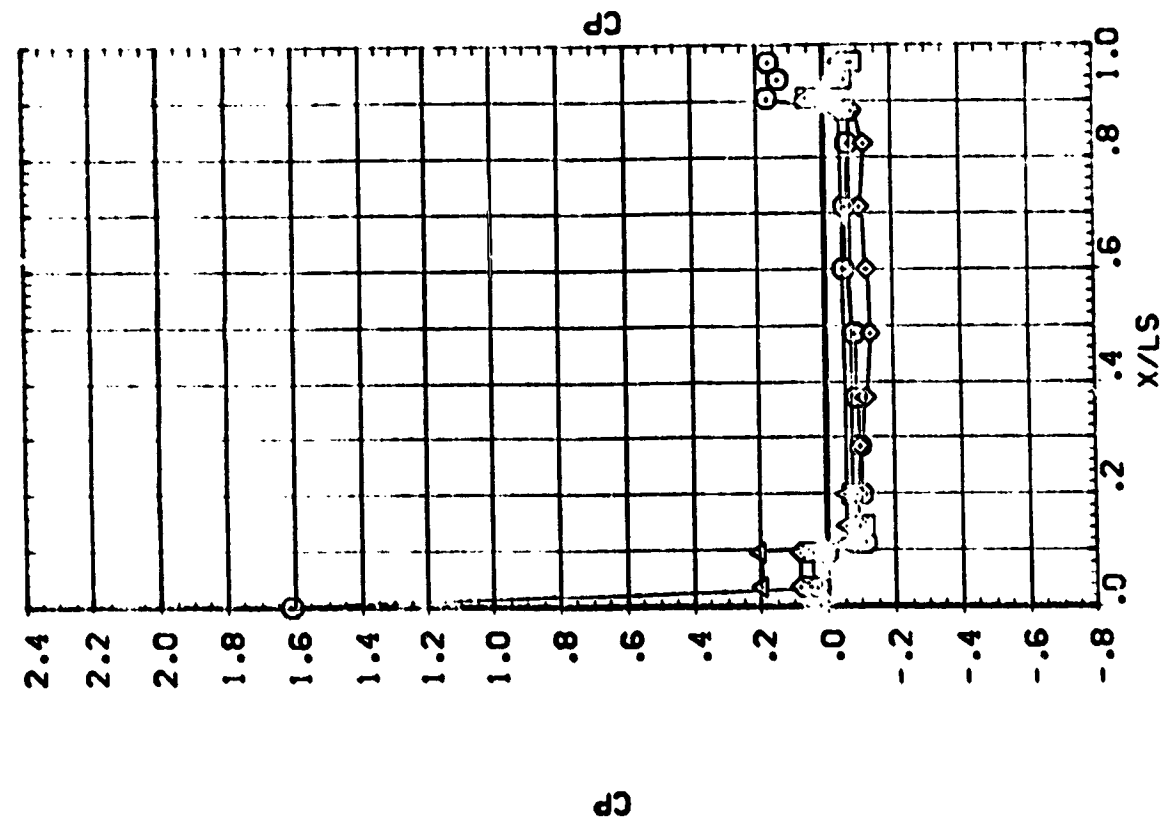
23.507:

5000
10000
15000
20000
25000
30000
35000
40000
45000
50000
55000
60000
65000
70000
75000
80000
85000
90000
95000
100000

3E.1.	vac.
4.4.33	2.000
8.750	

A. B. A.
P. J. J.
P. J. J.

S.T. S.S. Avenue



LONGITUDINAL DISTRIBUTION OF SPH BOOSTER PRESSURES

10-15 87-100 100 200 300 400 500 600 700 800 900 1000

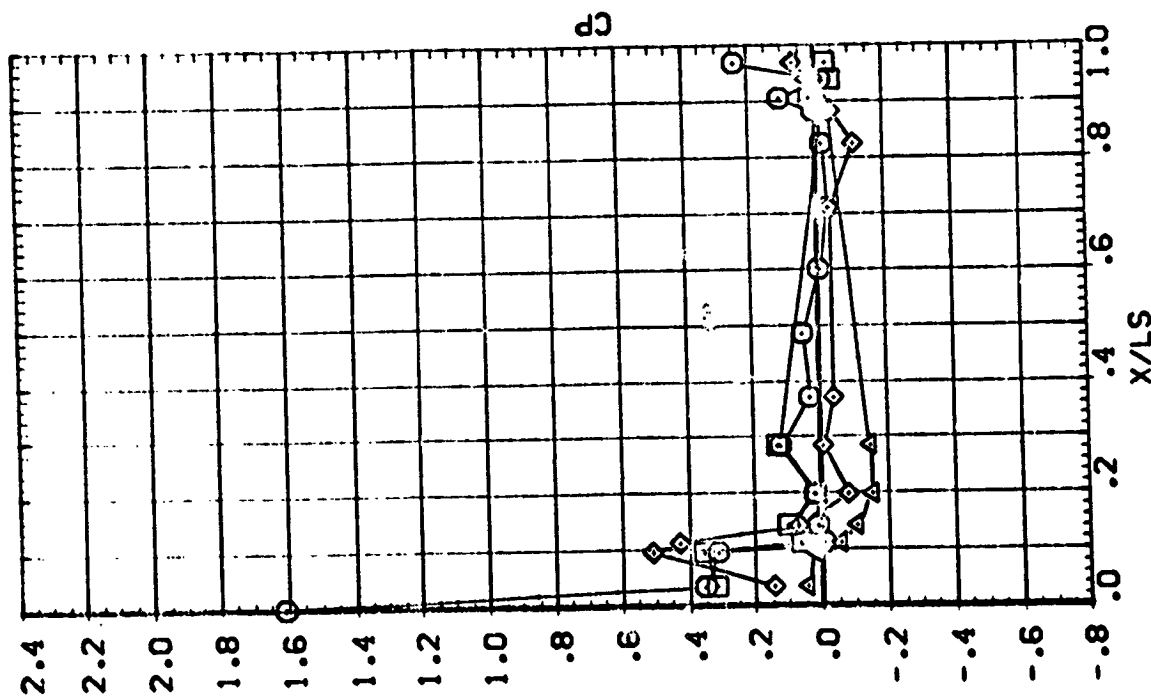
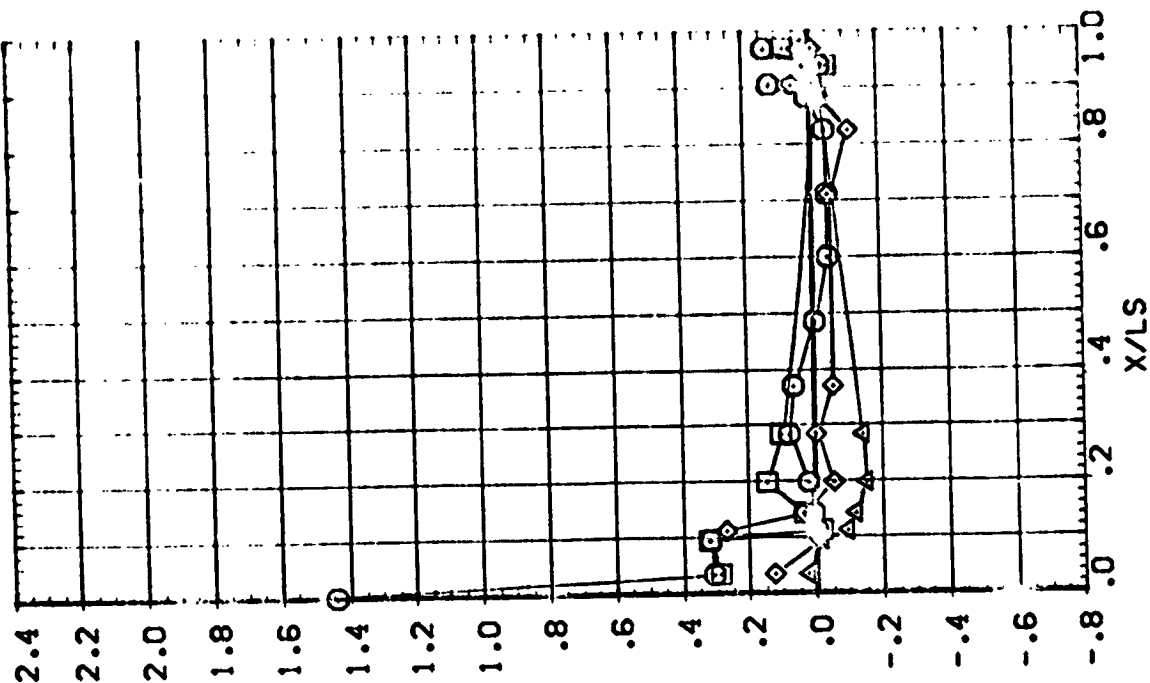
SYNCH
180.000
275.000
270.000
315.000

BETA
4.400
8.750

VAC
2.999

ALPHA
RUDER
RUD-LR

PARAMETRIC VALUES
-8.0000
-0.0000
-0.0000
-0.0000
-0.0000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

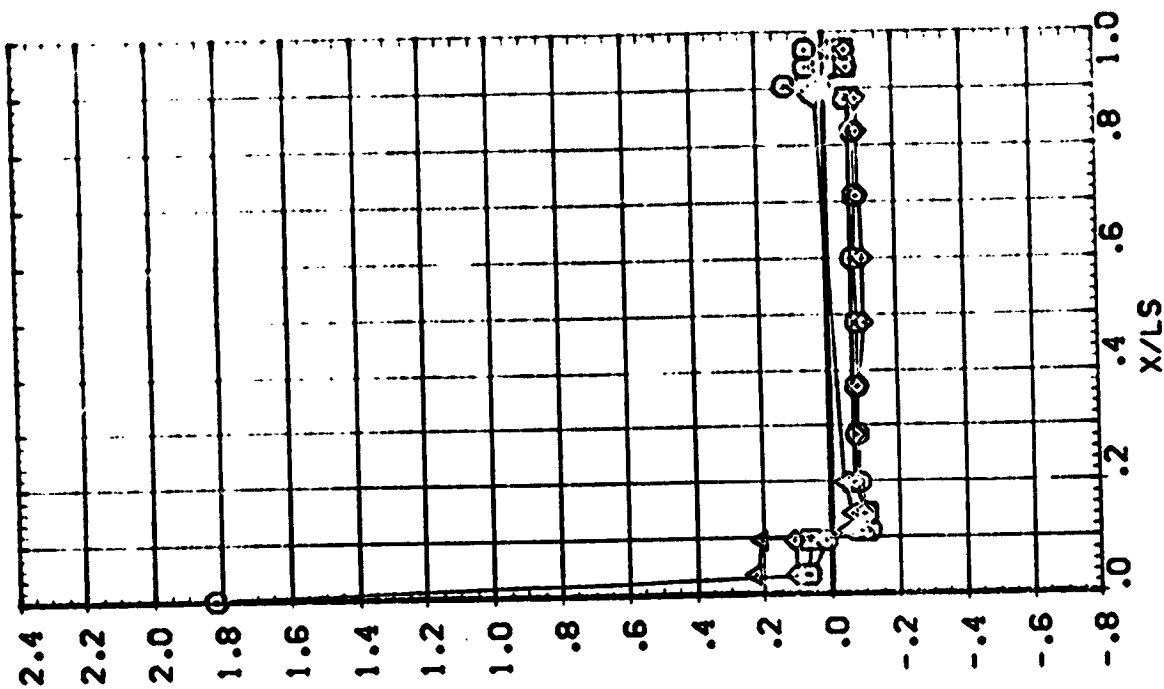
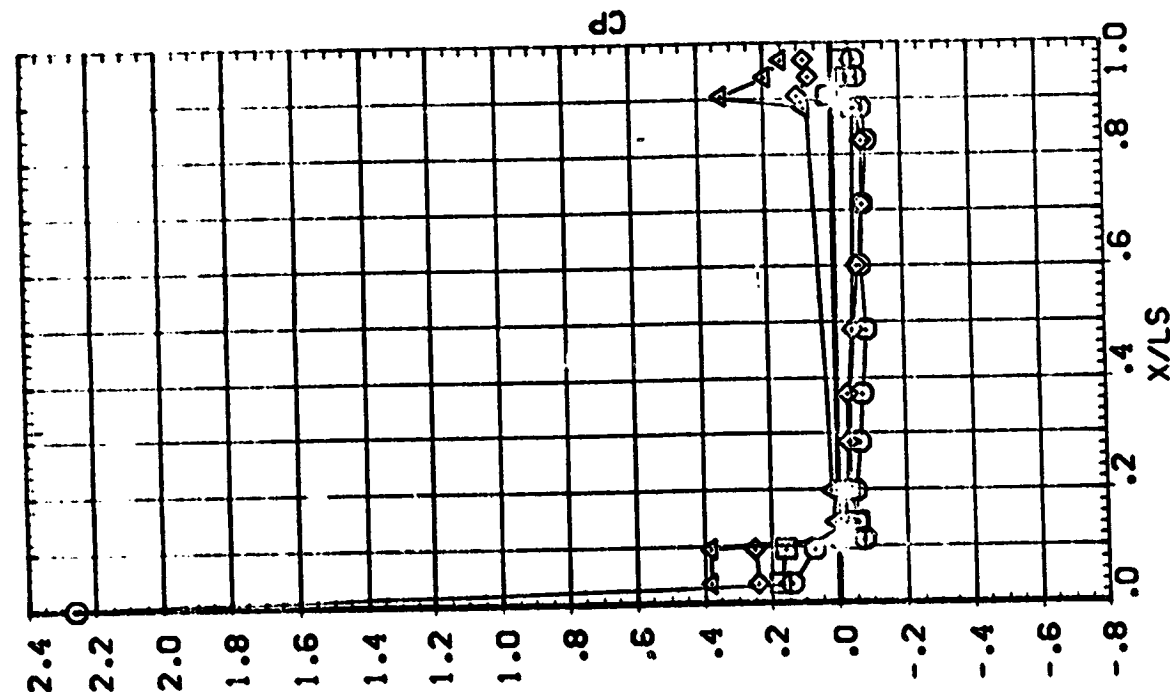
AVES 87-707 :A9 C2A - S3 - '9 SRV BOOSTER

(RBN502)

SWSC
() () ()

BETA: MACH
-4.330 3.502
2.760

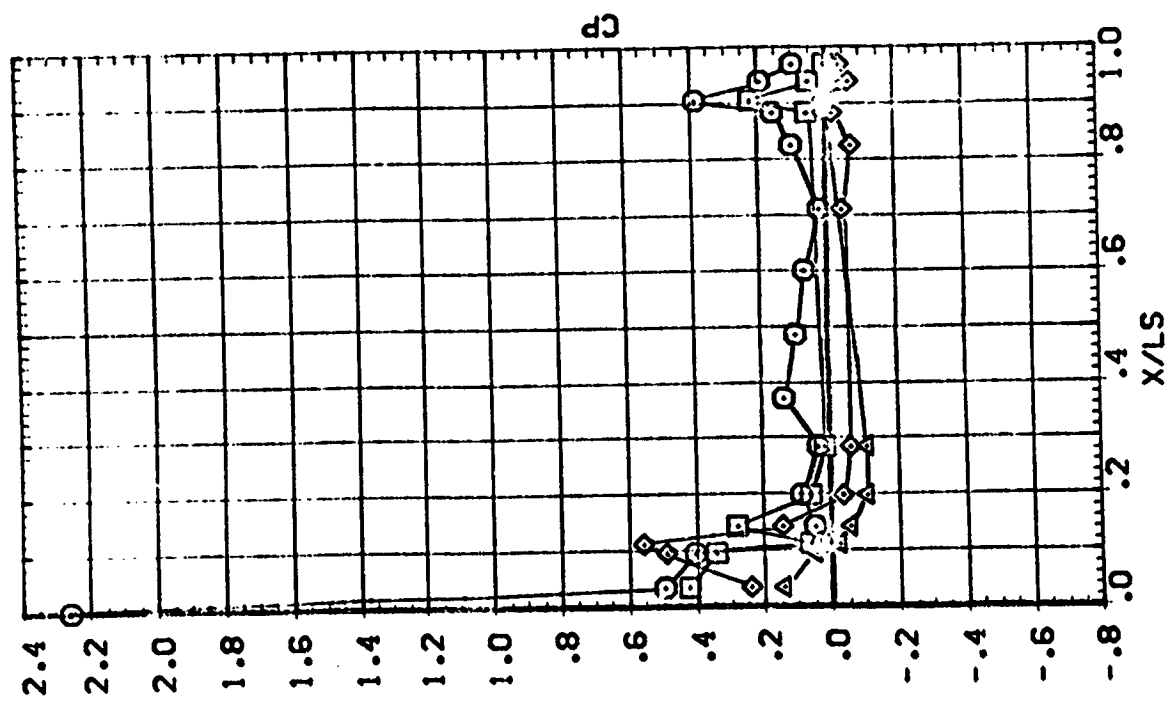
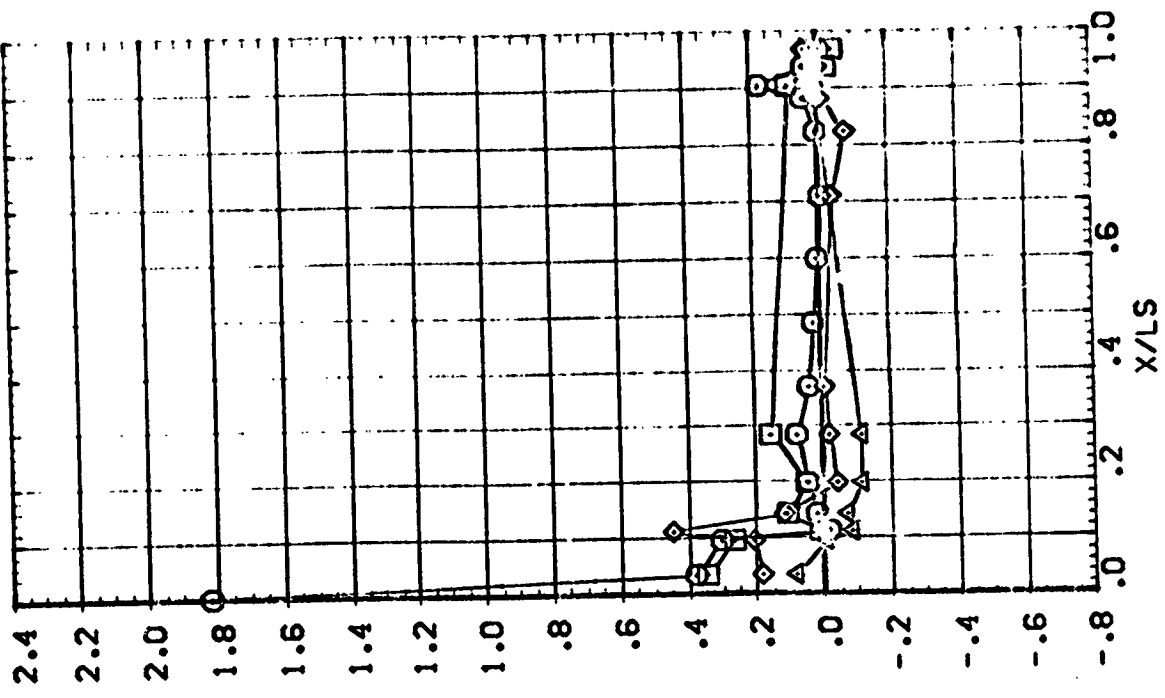
PARAMETRIC VALUES
ALPHA: -0.000 0.000
RUDER: 0.000 0.000
RQF: 0.000 0.000



LONGITUDINAL DISTRIBUTION OF SRV BOOSTER PRESSURES

PARAMETRIC VALUES
 ALPHA -8.000 0.000 500
 POWER 1.000 1.000 1000
 RJSER 1.000

5.000
 180.000
 275.000
 275.000
 315.000
 3.500
 4.330
 7.780
 3.500



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

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IVES 87-707.1A9 C2A - S3 + '9 SRV BOOSTER

(RBN502)

SWBC
 ()
 O
 A

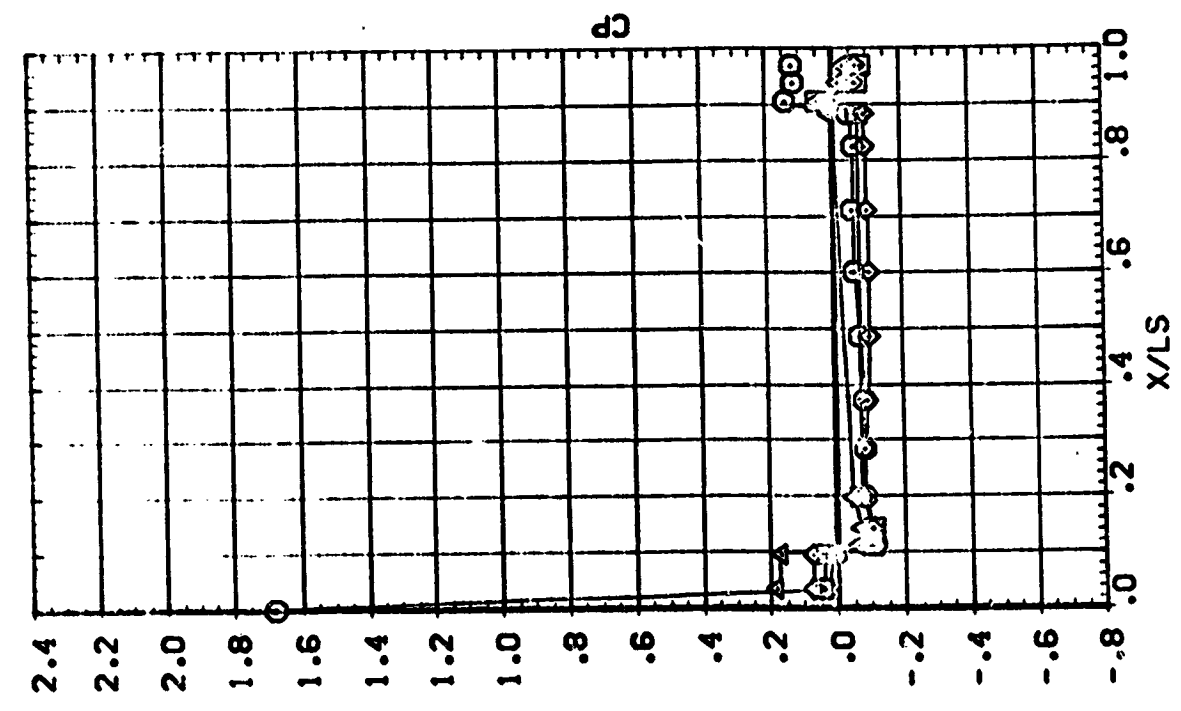
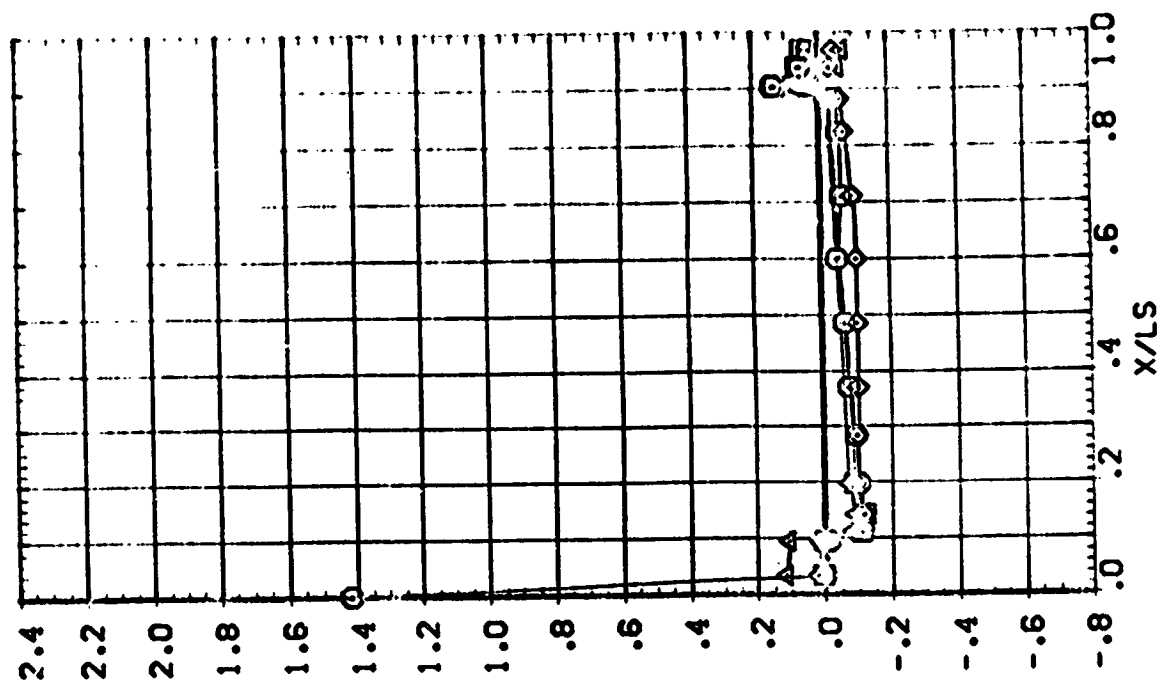
AL: 1.000
 45.000
 90.000
 135.000

SEAN
 4.48C
 8.95C

WACH
 3.50P

PARAMETRIC VALUES
 ALPHAT -8.000
 RUDDER 1.000
 RUDLR 1.000

500
 1000



LONGITUDINAL DISTRIBUTION OF SRV BOOSTER PRESSURES

AVES 87-707 :A9 C2A - S3 - 19 SRM BOOSTER

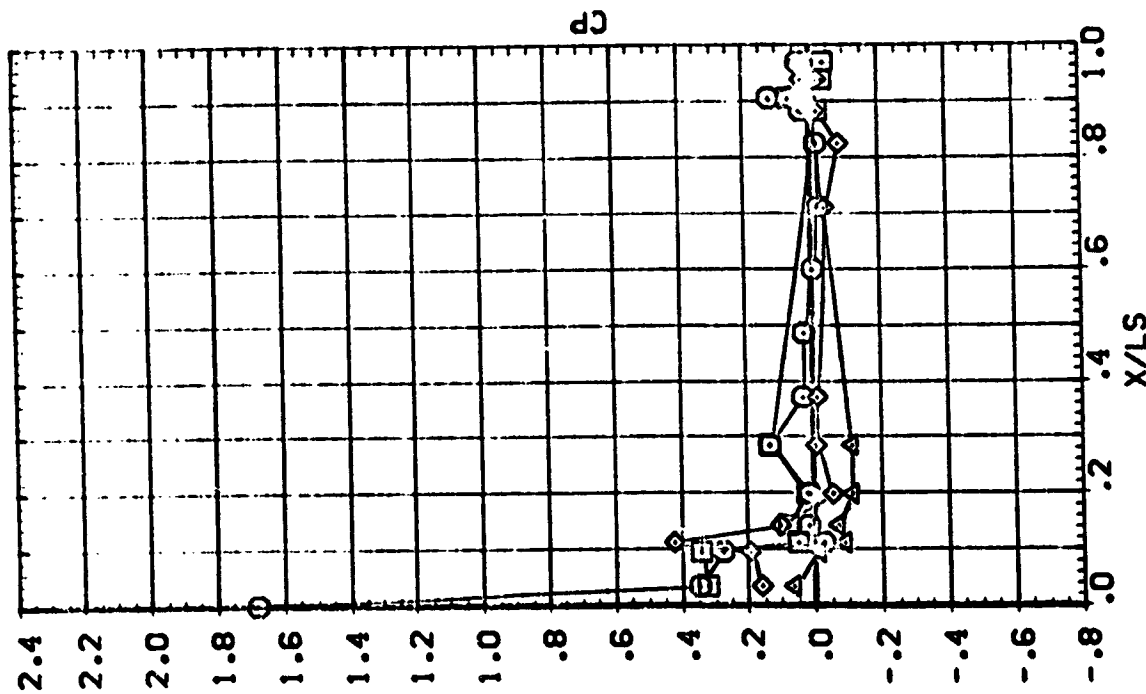
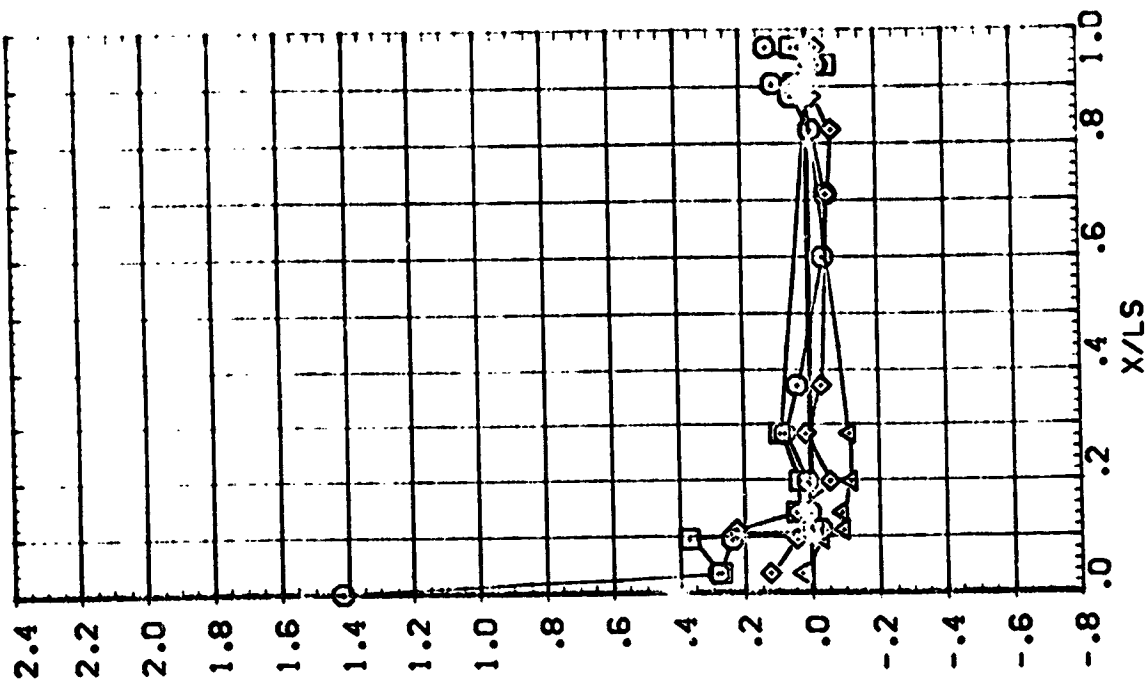
(R3\SC2)

SUBC

180.000
275.000
275.000
315.000

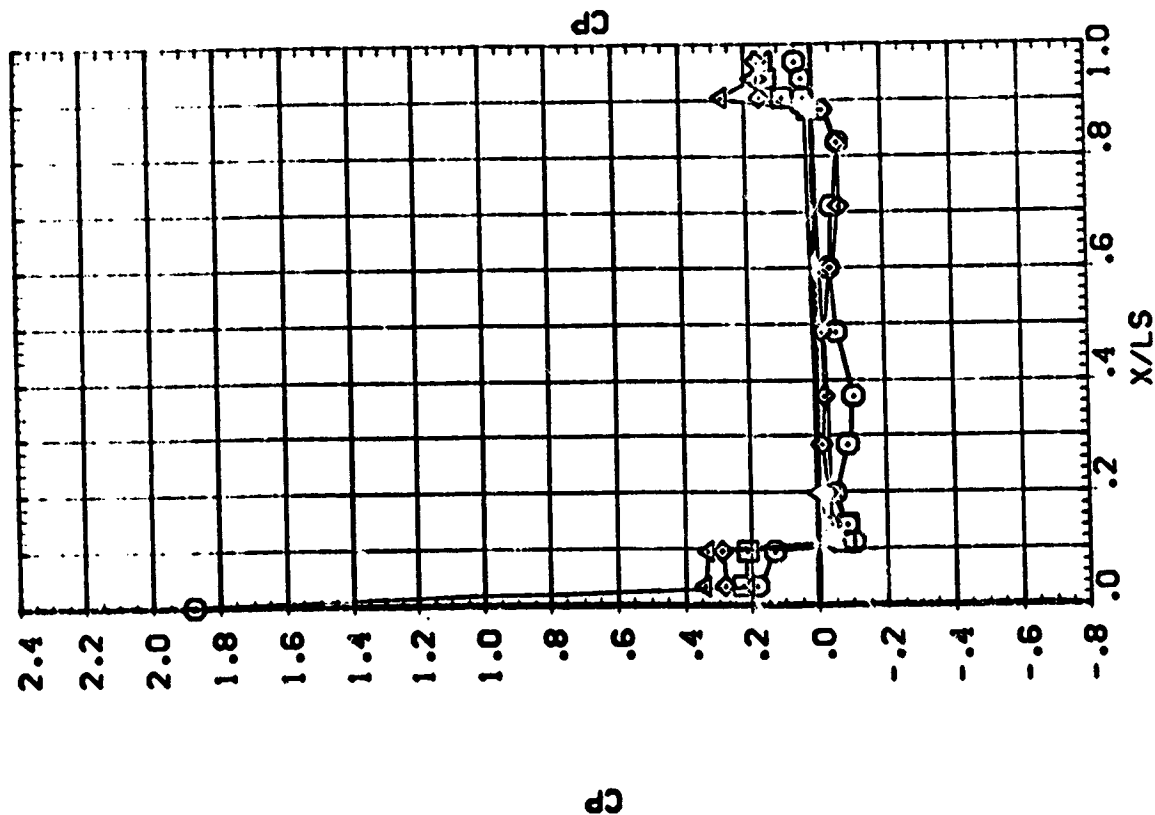
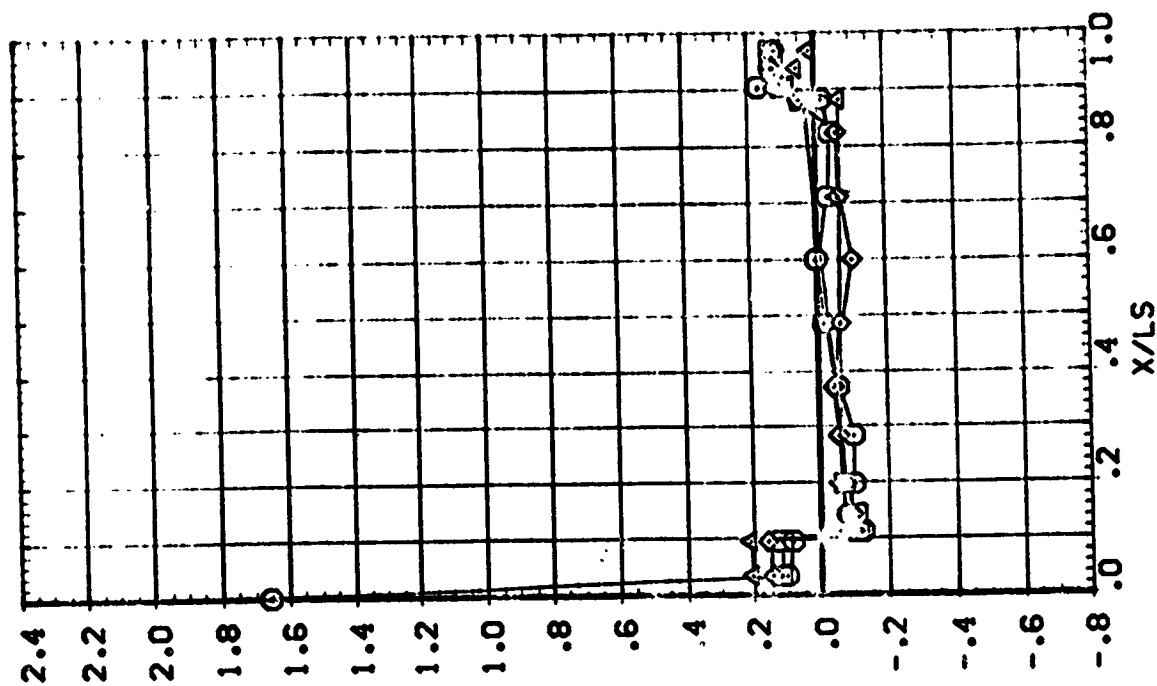
BEAT 4.480
WAC 3.502
8.910

PARAMETRIC VALUES
ALPHA -8.000 999.10
BOOSTER 1.000
ELEV 1.000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

(33/504)

[illegible][illegible]

LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AVES 87-7C7 :A9 C2A - S3 + 19 SRM BOOSTER

(P315C4)

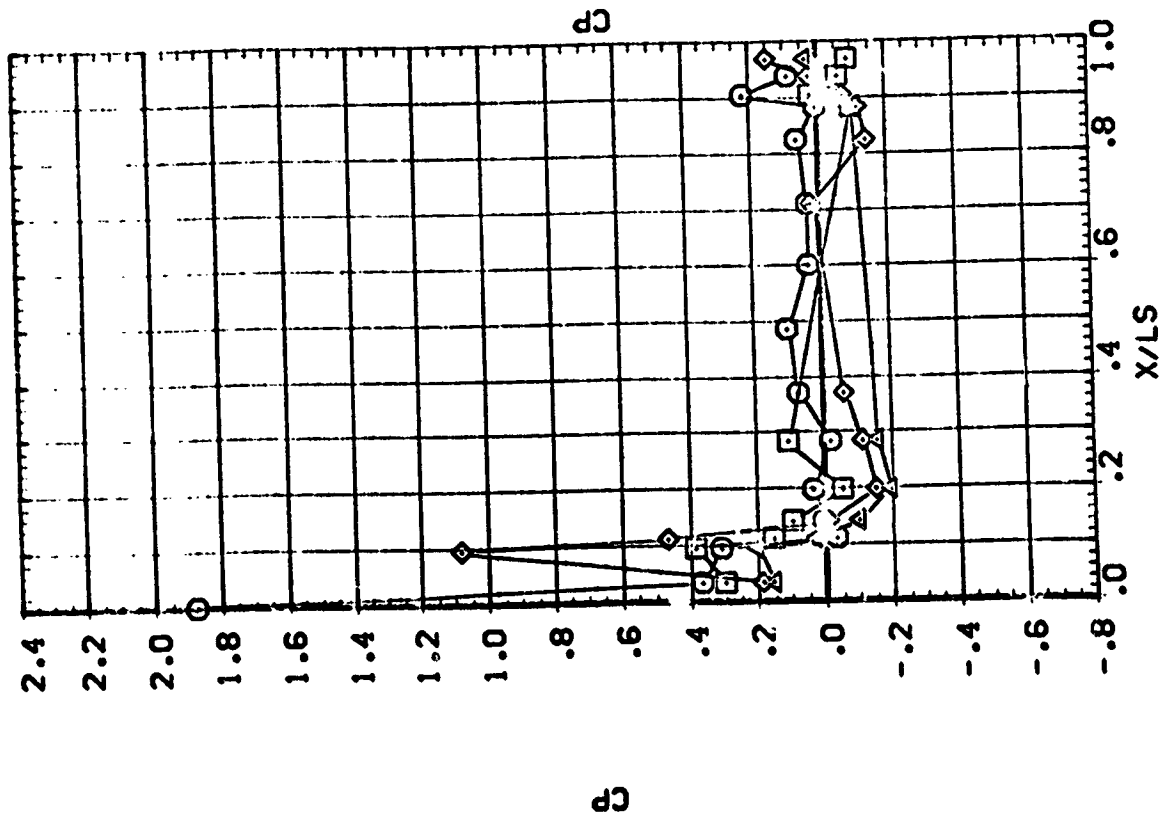
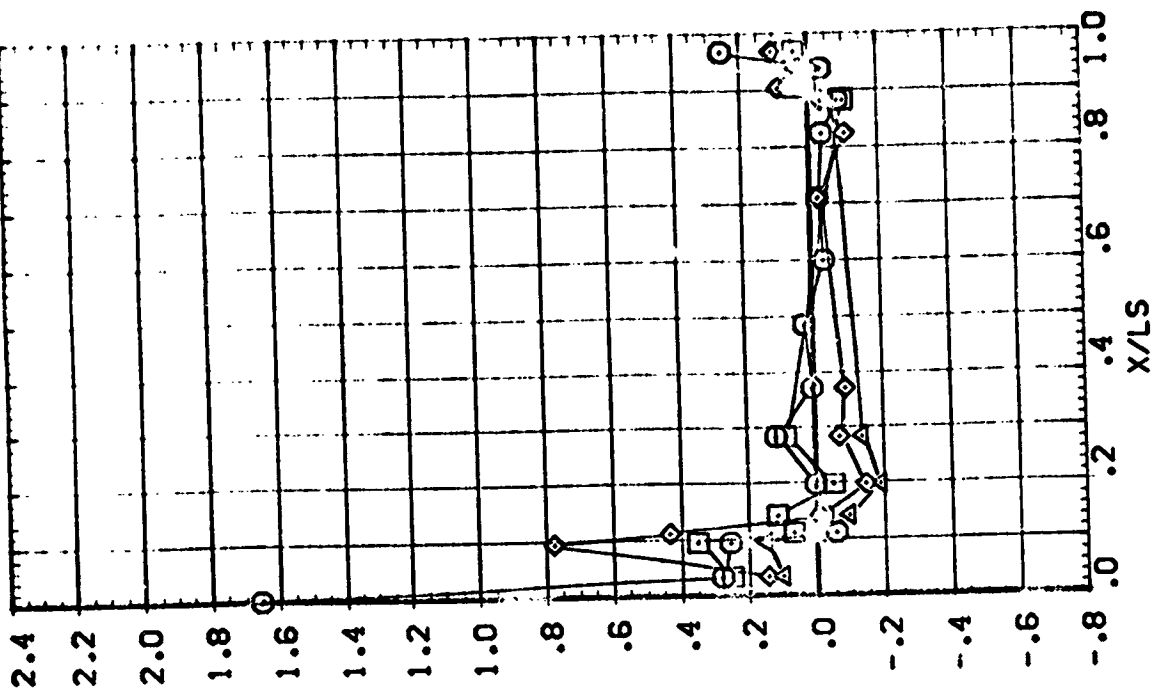
51132
0
0
0

DAI
:80.000
275.000
775.000
315.000

BETA7
-4.190
2.180

MACH
2.198

PARAMETRIC VALUES
ALPHA -4.000
RUGGED .000
RUGLER .000
SRBINC .500
ELEV .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

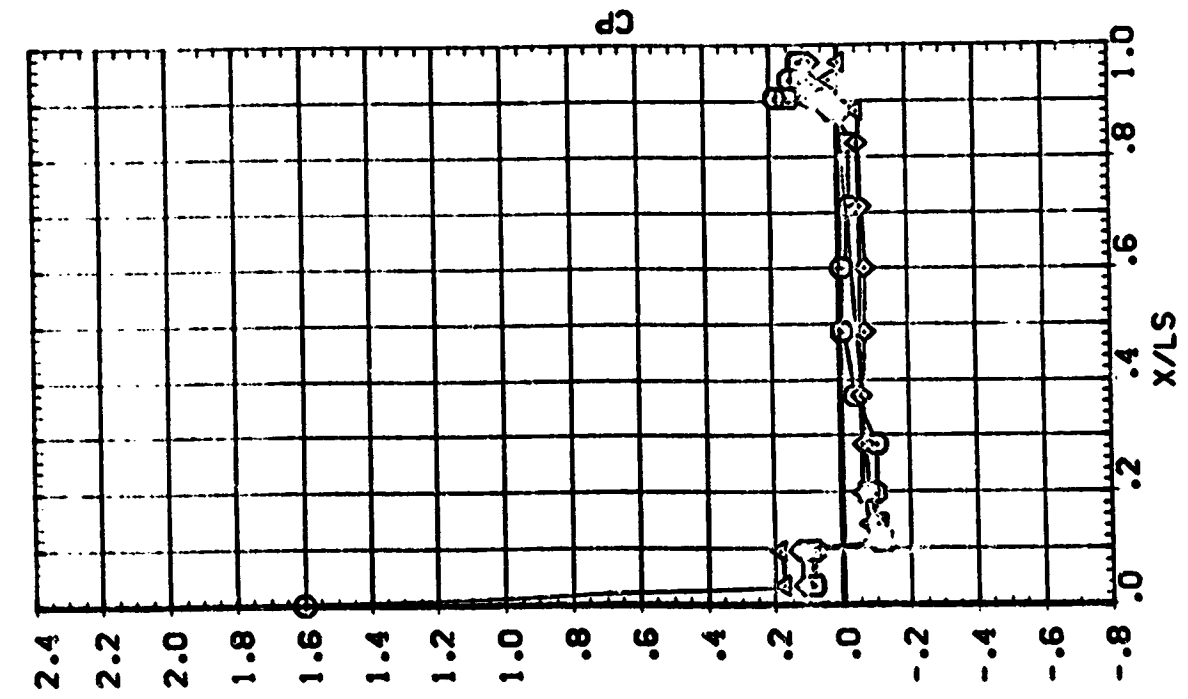
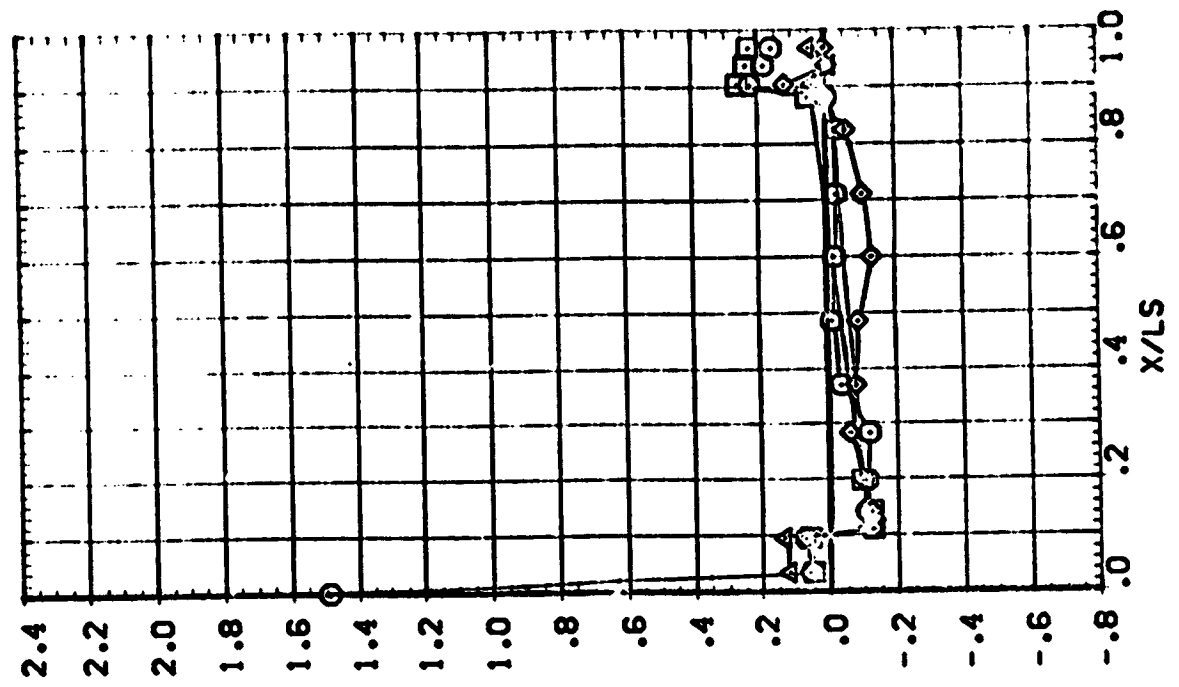
(231524)

AVES 87-707 :A9 C2A - S3 - 19 SRM BOOSTER

PARAMETRIC VALUES
 A.P.A. 1.000
 BOOSTER 1.000
 ELEVON 1.000

SWAC: 1.000
 45.000
 90.000
 135.000

BETA' 4.300
 WACH 2.198
 8.550



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

(R3\504)

87-707 :A9 C2A - S3 - '9 SRV BOOSTER

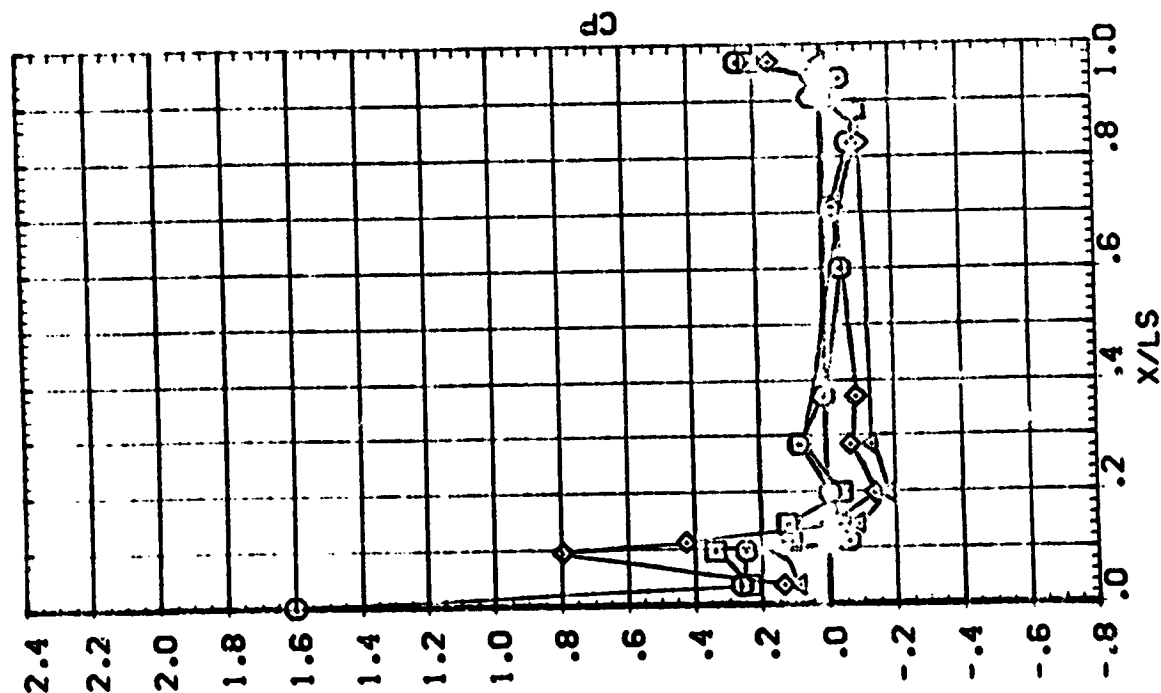
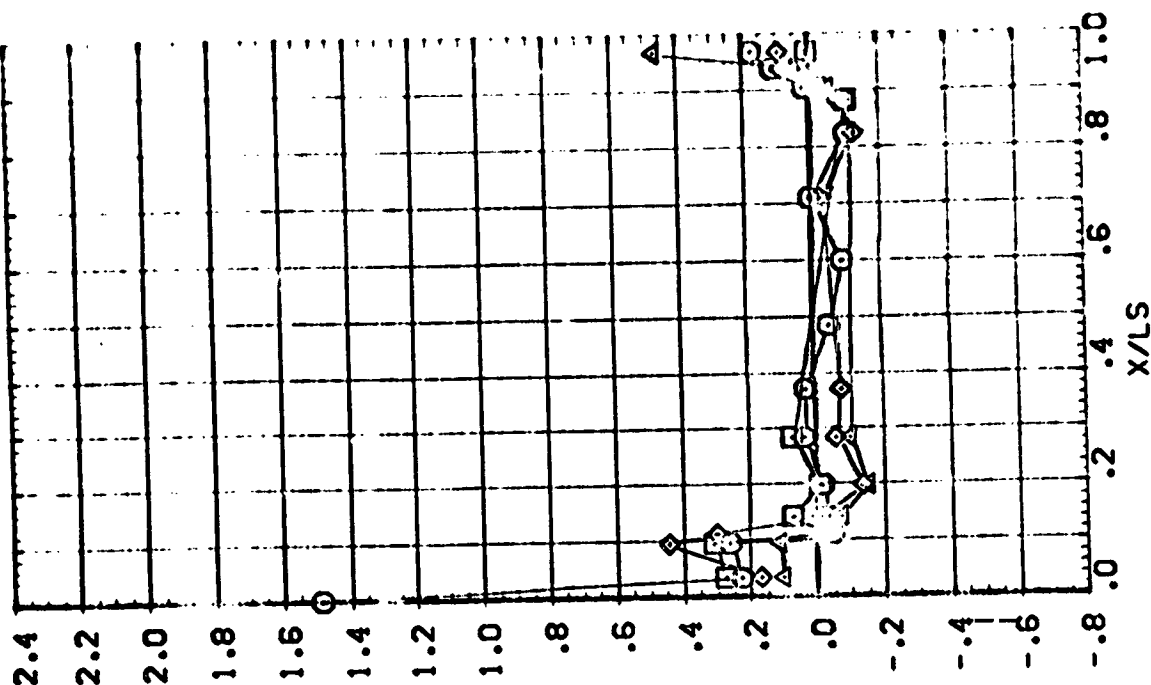
PARAMETRIC VALUES
 -4.000 59812
 .000 0.000
 .000 0.000

ALPHAT
 RUDDER
 RUDDER

3.1416 2.498
 4.300 8.550

180.000
 275.000
 770.000
 315.000

SYNCH
 0.0
 0.0
 0.0



LONGITUDINAL DISTRIBUTION OF SRV BOOSTER PRESSURES

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AVES 87-707 1A9 02A + S3 - 19 SRV 3005-EP

(R3NSC4)

SWBC

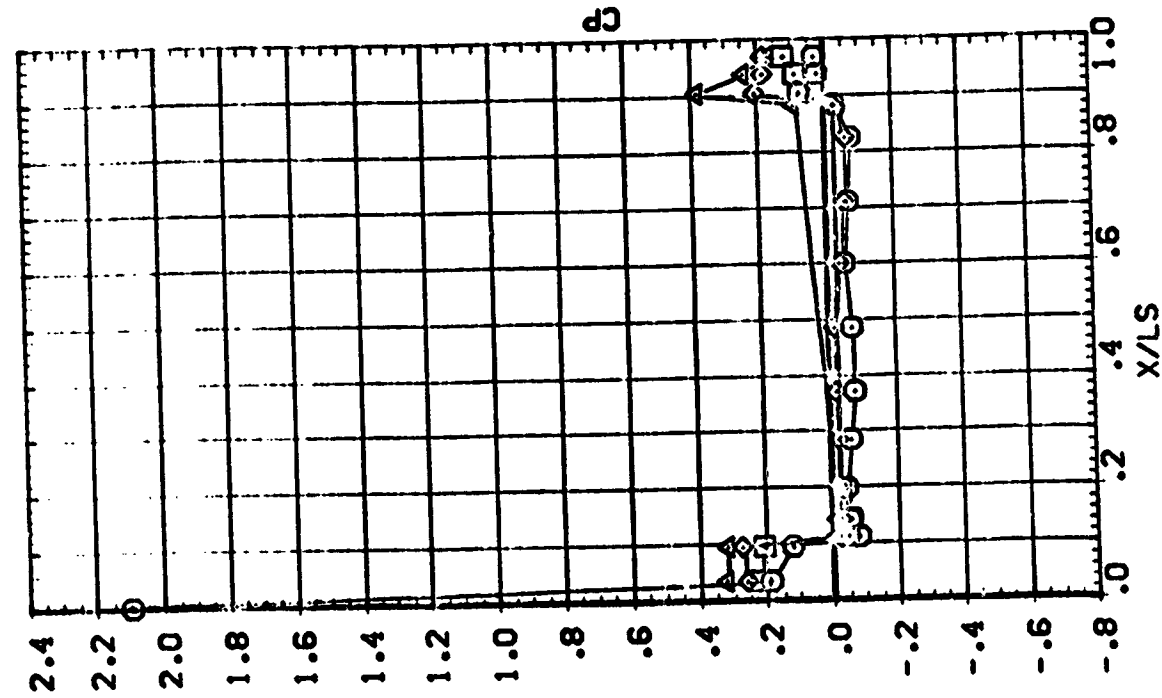
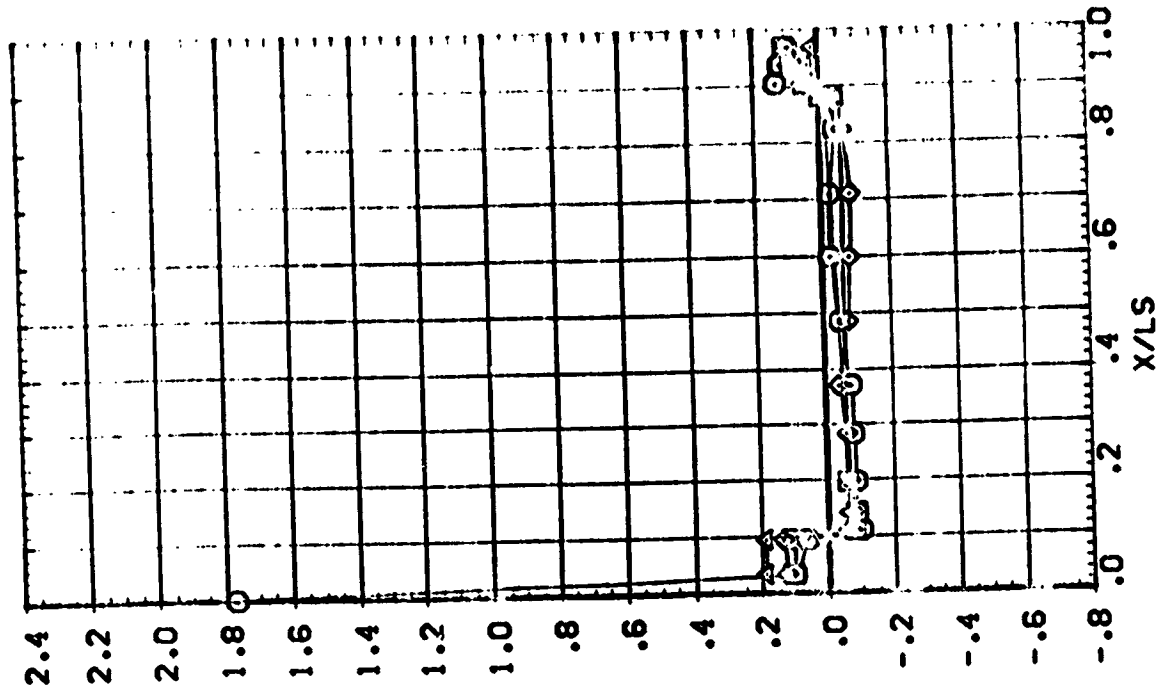
45.000
90.000
35.000

BE "A" "AC"
-4.260 2.599
7.210

PARAMETRIC VALUES

ALPHAT
RUDER
RUDFLR

-4.000 0.000
.000 .000
.000 .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

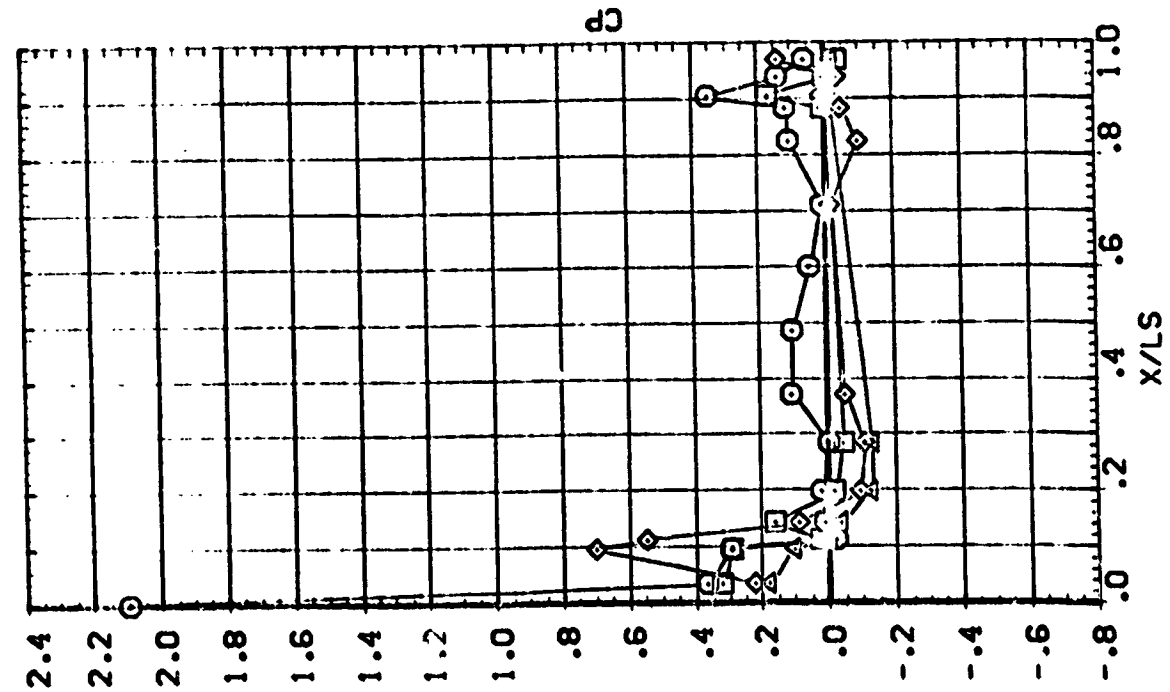
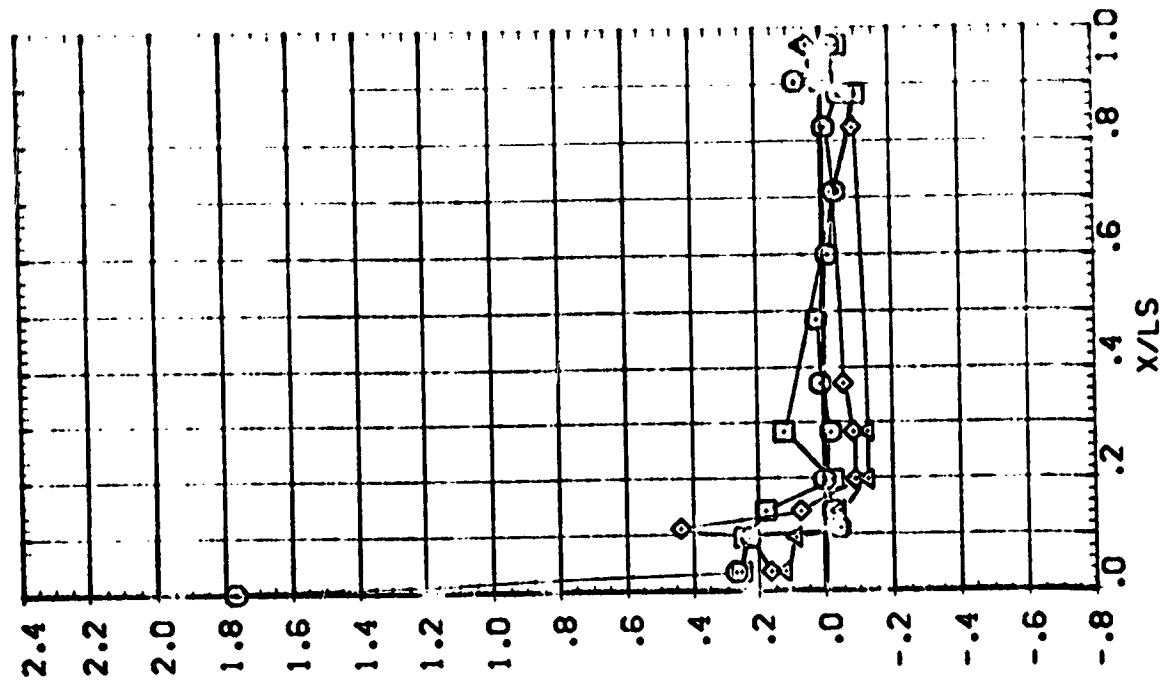
(R8\504)

IVES 87-707 :A9 C2A - S3 - 19 SRM BOOSTER

PARAMETRIC VALUES
 ALPHA* -4.000
 RUDER .000
 RUDLR .000

SYNTH.
 ()
 180.000
 775.000
 770.000
 315.000

BETA* -4.250
 WIND 2.999
 7.210



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

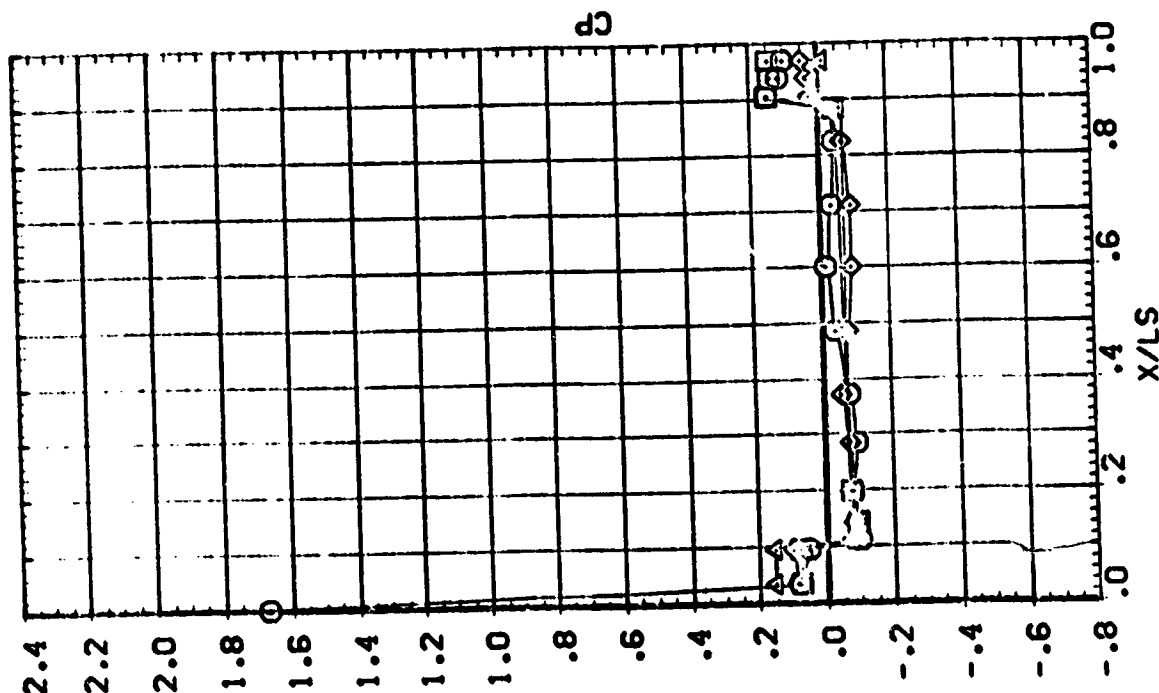
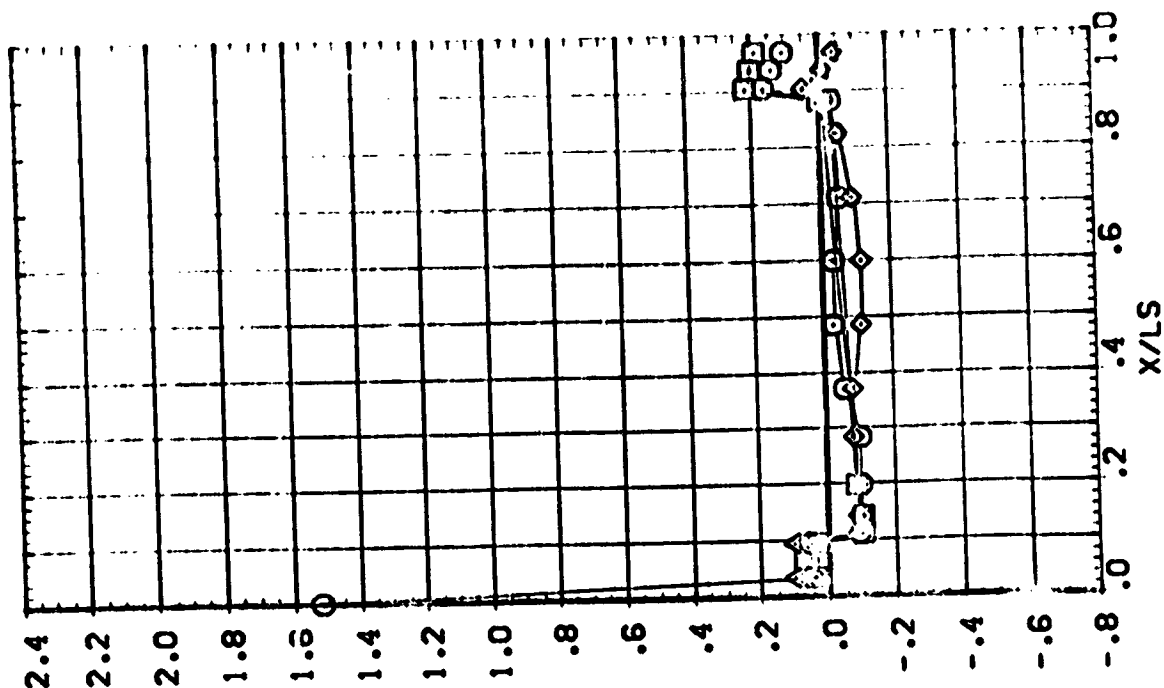
AVES 87-707 :A9 C2A - S3 - 79 SPV BOOSTED

(R3NS04)

PARAMETRIC VALUES
ALPHAT -4.000 299.5
RJOER .000 0.000
RJOELR .000 0.000

SYGQ
()
◇
△

357A 4.38C 8.71C
VAC- 2.999



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AVES 87-707 1A9 374 - S3 - '9 SRM BOOSTER

(23\SC4)

SWRZ
 ○
 ◇
 △

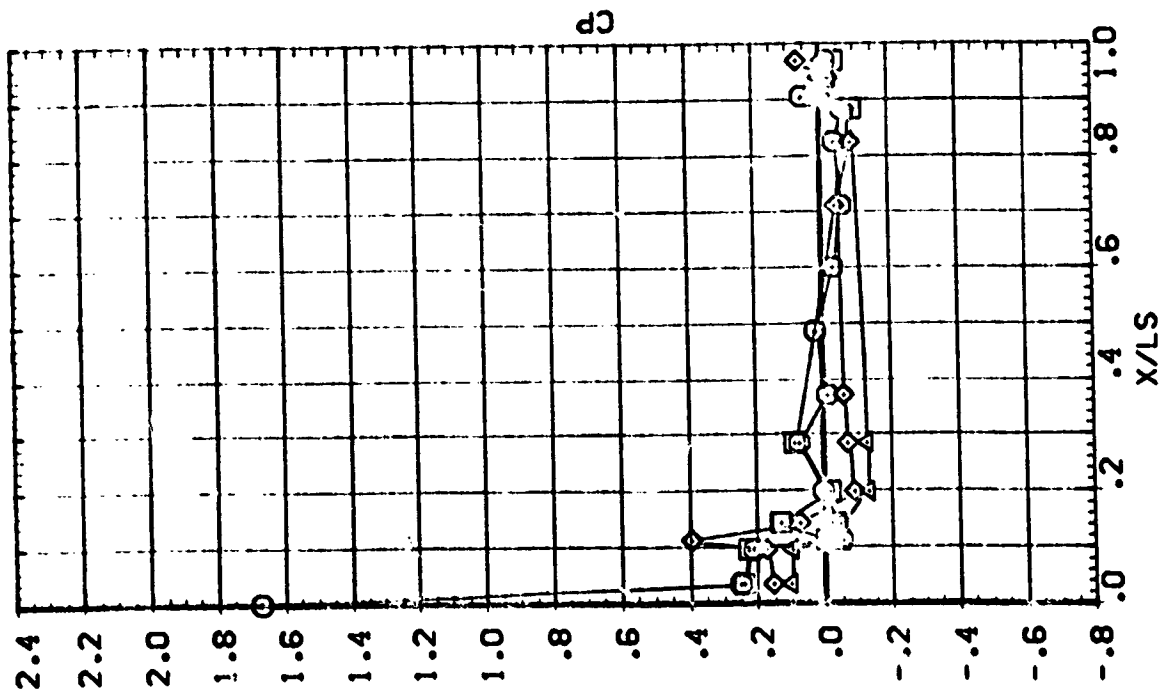
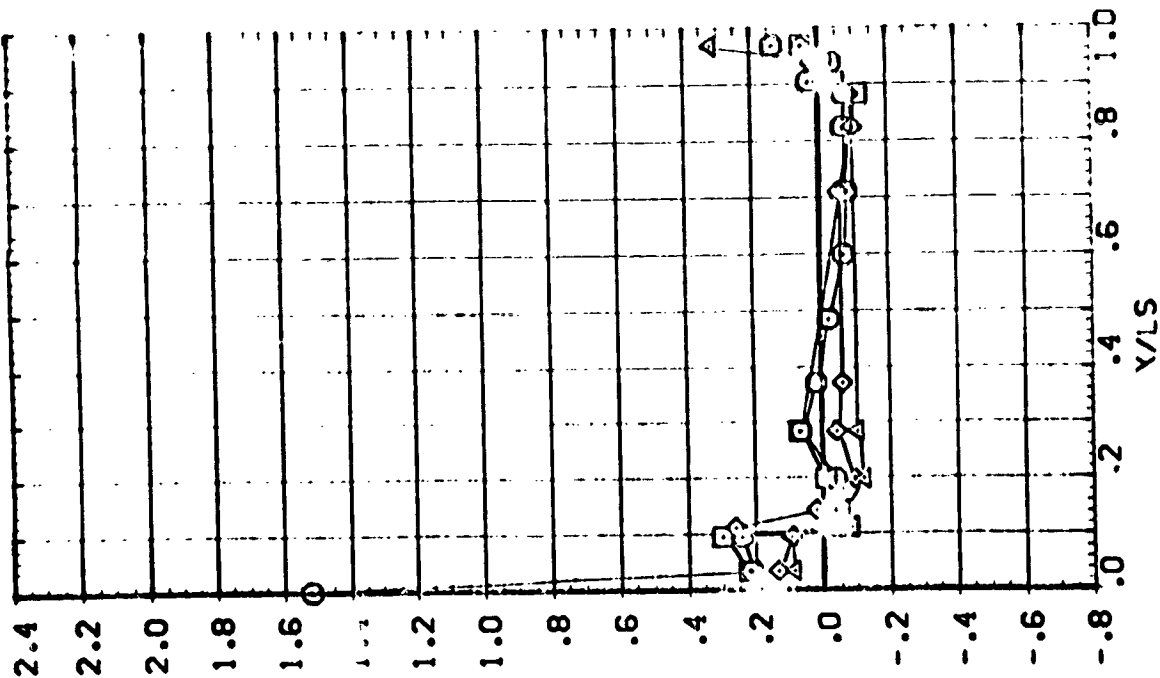
RAI
 180.000
 275.000
 275.000
 315.000

BEVA
 4.380
 8.710

WIC
 2.999

PARAMETRIC VALUES

ALPHA
 1.000
 1.000
 1.000
 1.000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

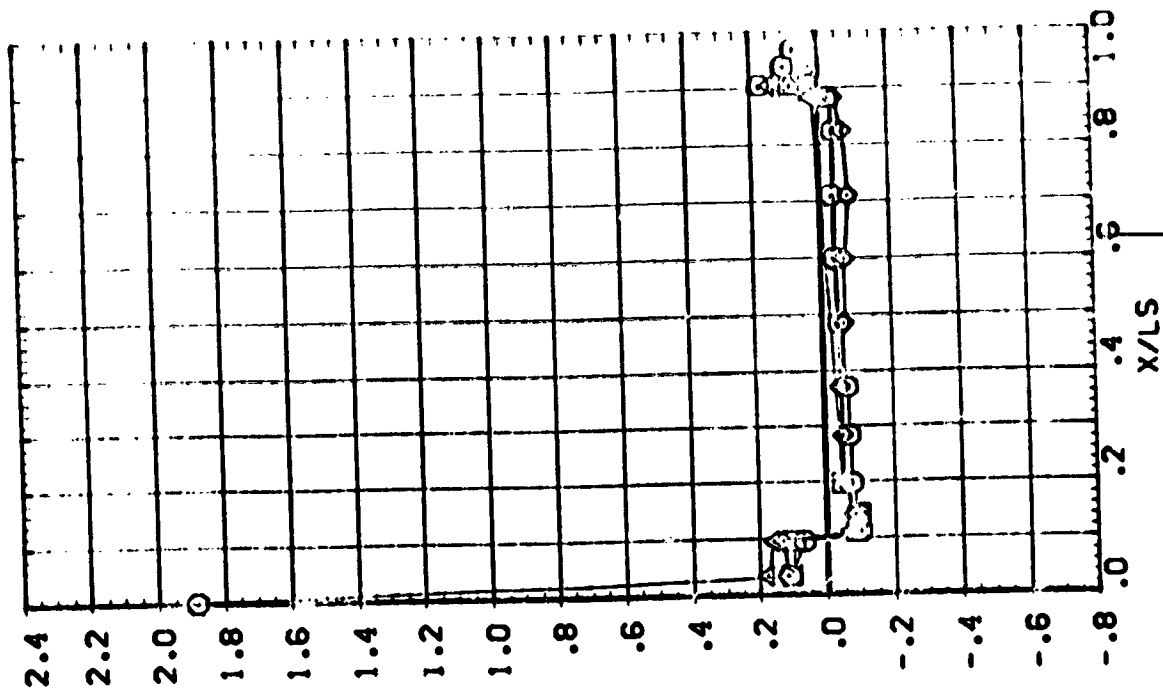
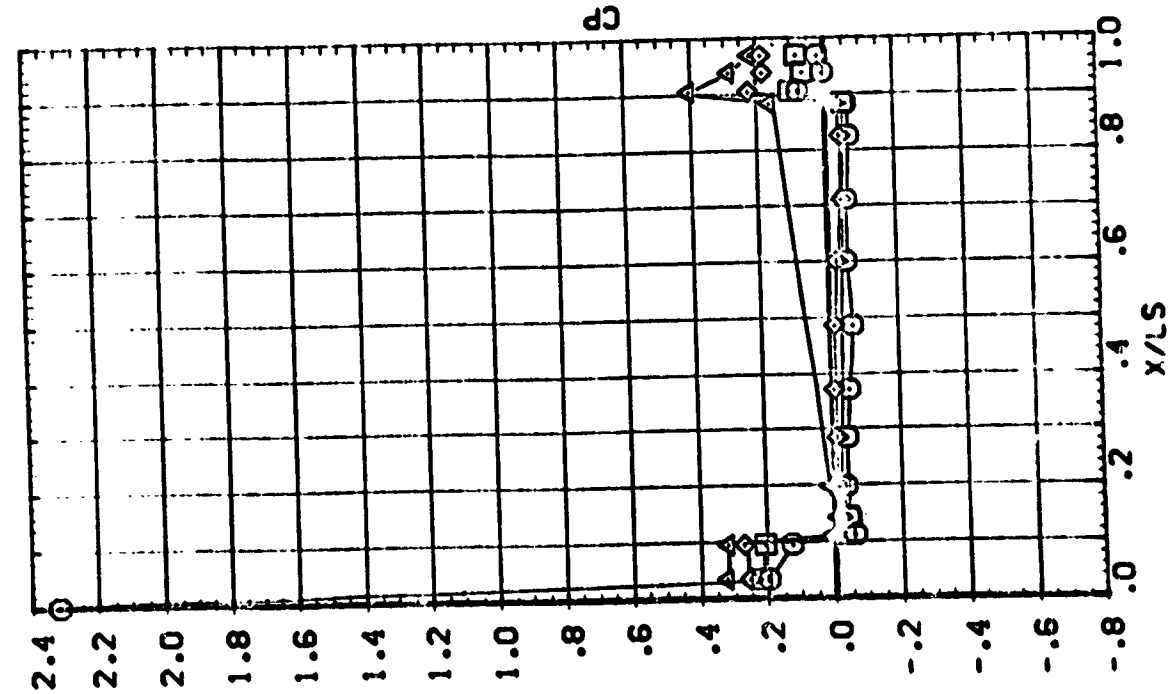
AVES 87-707 :A9 C2A + S3 + -9 SRV BOOSTER

(R3NSC4)

SYSC
()
◇
^

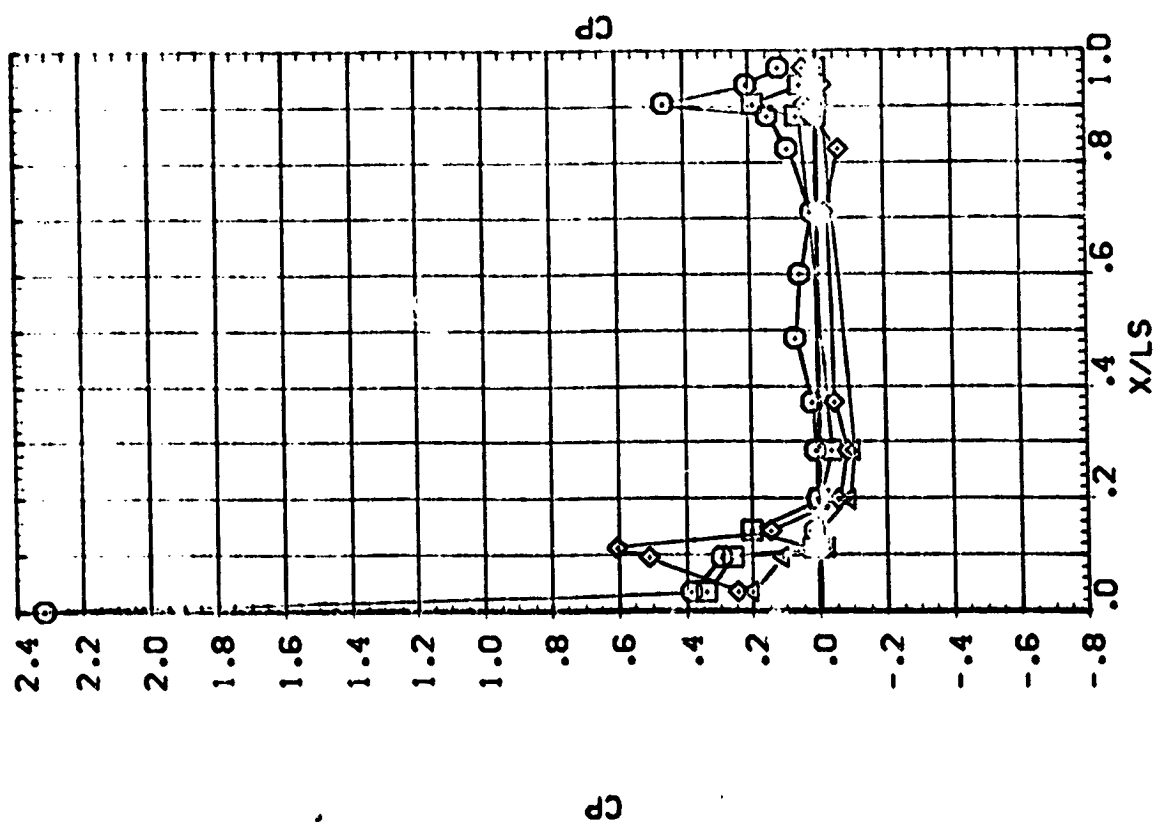
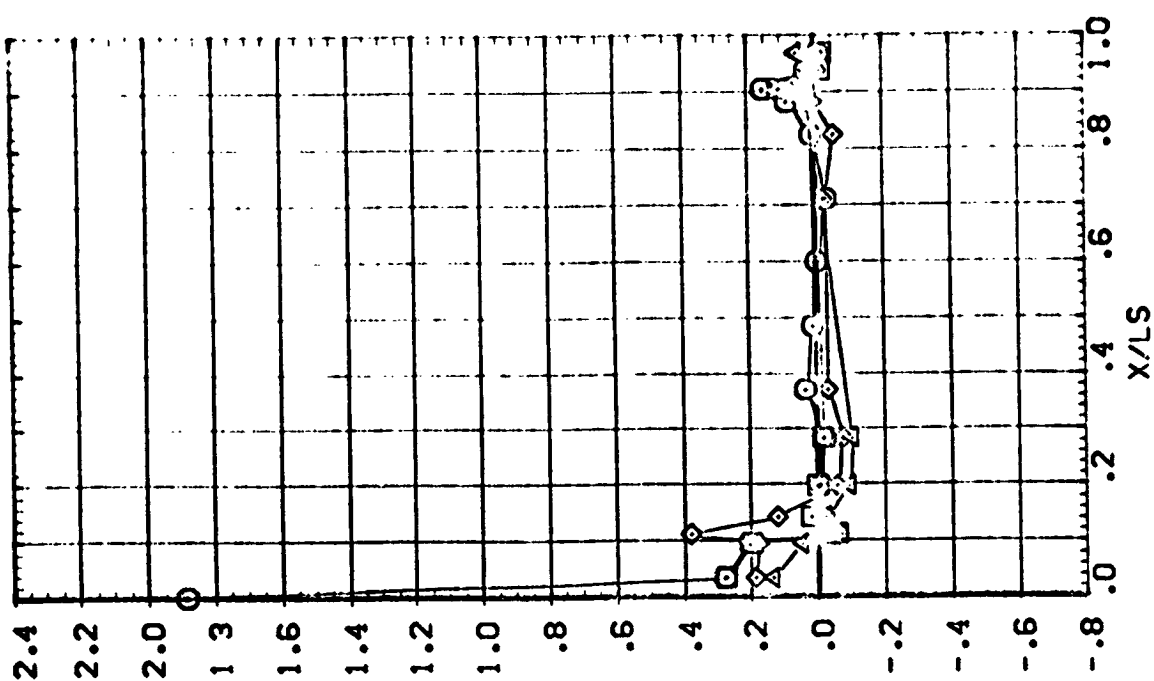
AVES
BETA
-4.34C
2.26C
3.5C2

PARAMETER VALUES
ALPHA
ROTOR
RUFLE
-4.000
-0.000
-0.000
-0.000



LONGITUDINAL DISTRIBUTION OF SRV BOOSTER PRESSURES

186.000	-4.340	9.549
275.000	3.260	
270.000		
315.000		



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

536. 3540

(RBN504)

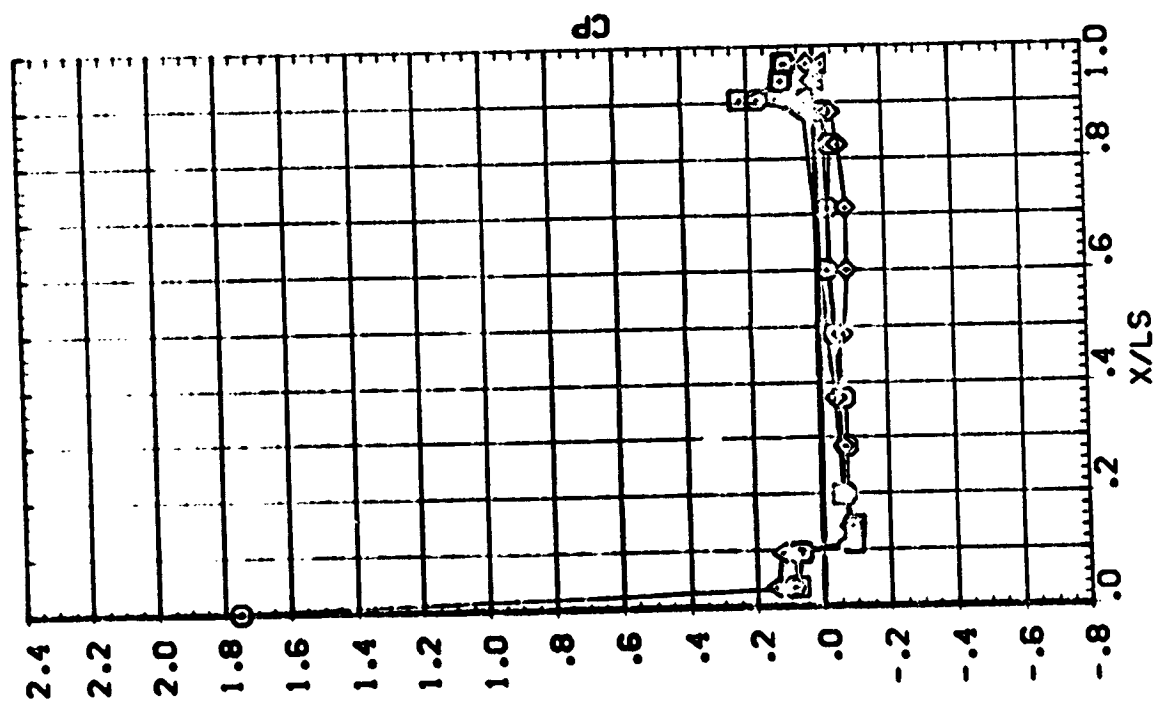
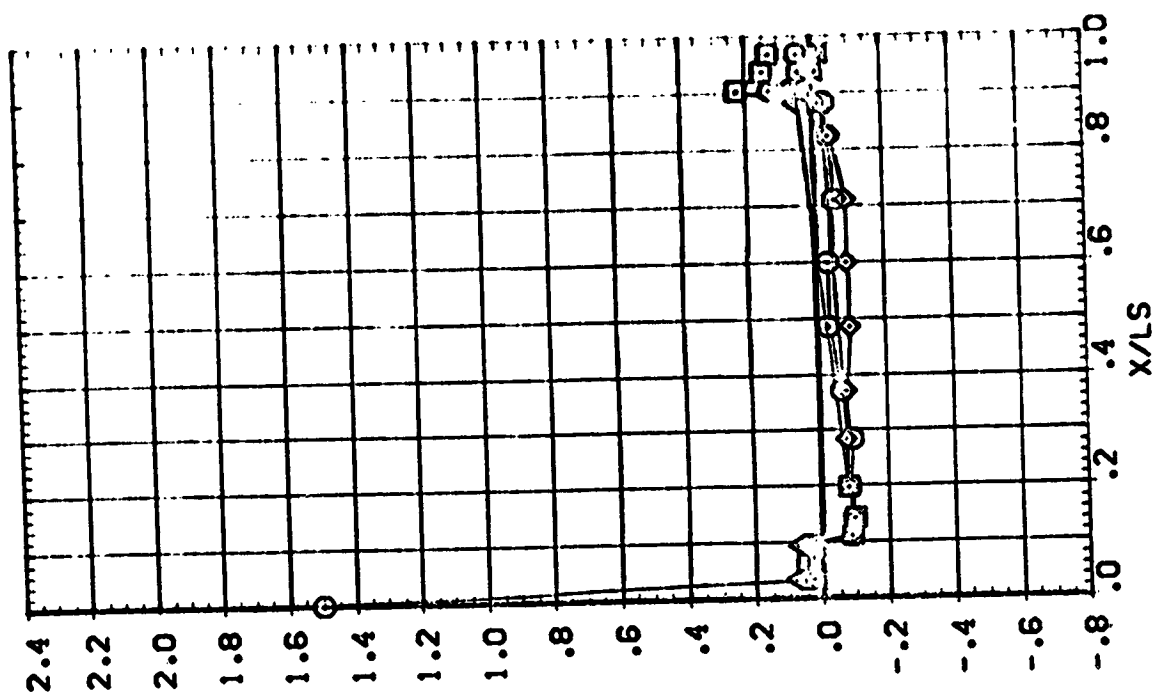
AVES 87-707 :A9 C7A - S3 - '9 SRV BOOSTER

SW-22
 1.0000
 45.0000
 90.0000
 135.0000

BE'A' WAC
 4.460 3.500
 8.870

PARAMETRIC VALUES
 ALPHAT -4.000 599.0
 RUDDER .0000 ELEV
 RUDDLR .0000

500
 1000



LONGITUDINAL DISTRIBUTION OF SRV BOOSTER PRESSURES

(R3V504)

AVES 87-707 :A9 C2A - S3 - 9 SRV BOOSTER

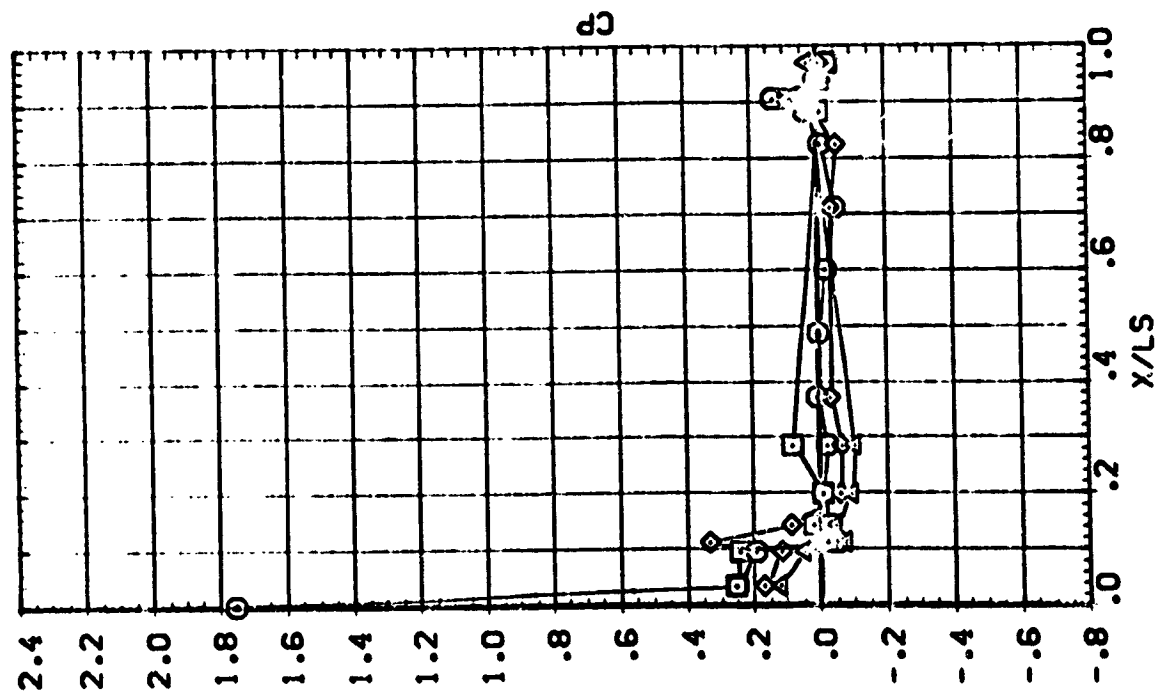
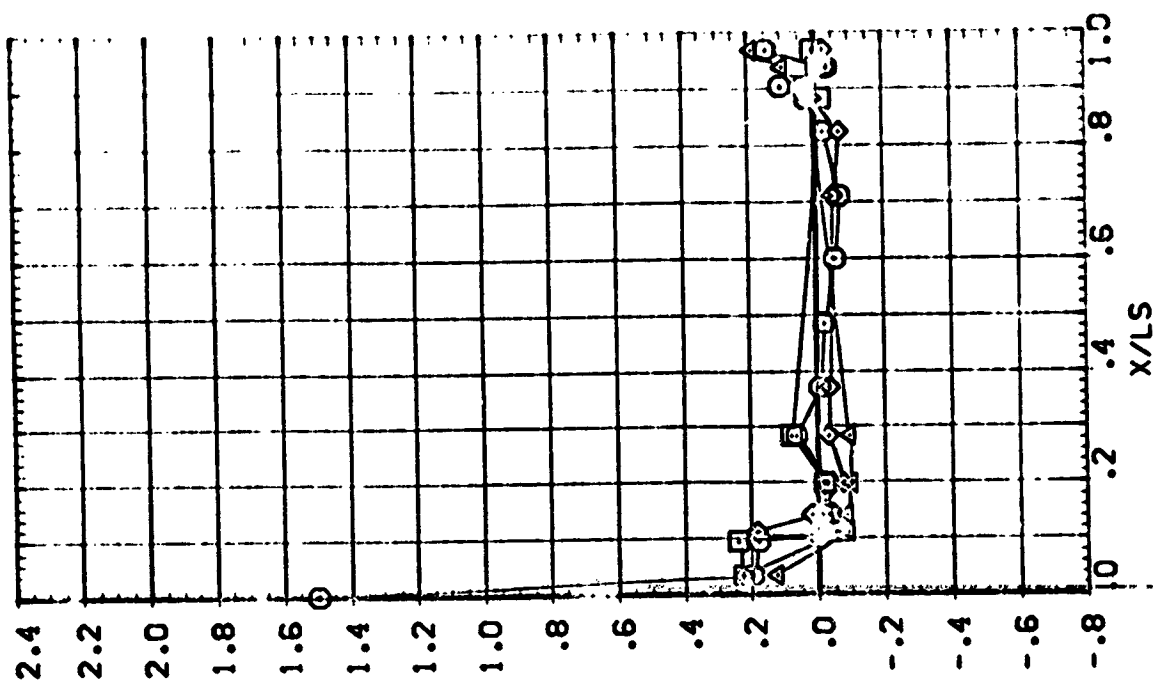
PARAMETRIC VALUES
ALPHAT -4.000
RUDDER .000
RUDFLR .000

ALPHAT
RUDDER
RUDFLR

SYNCD
P-1
180.000
275.000
270.000
315.000

BETA
4.460
8.970

WAG
3.552



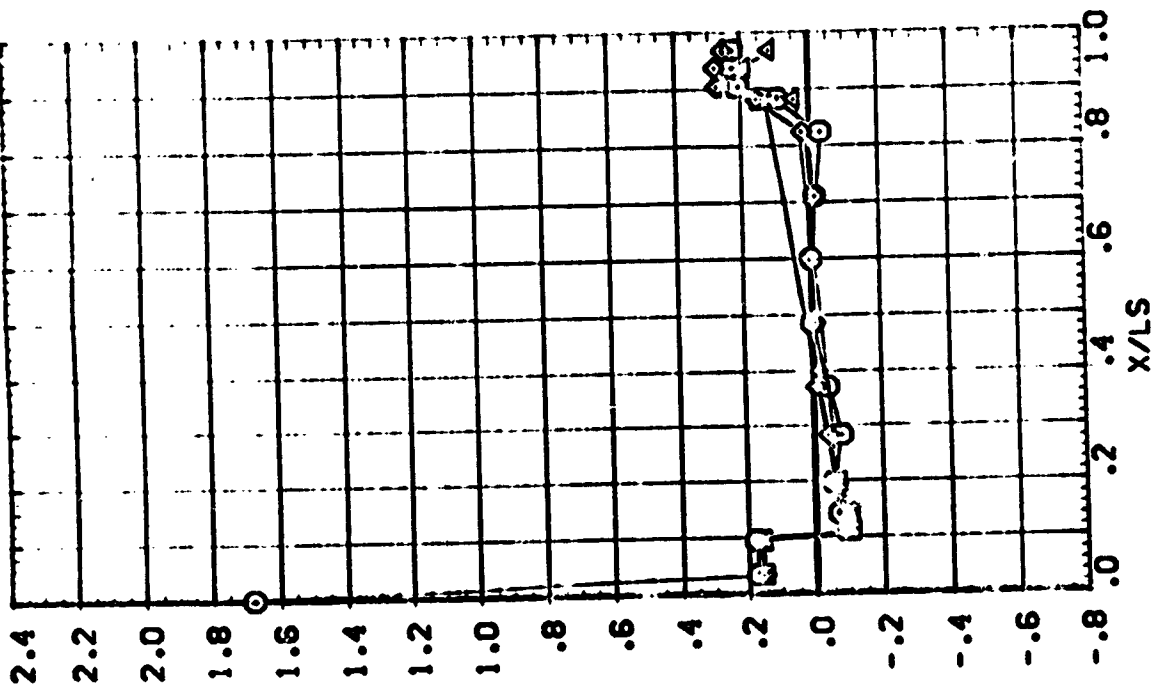
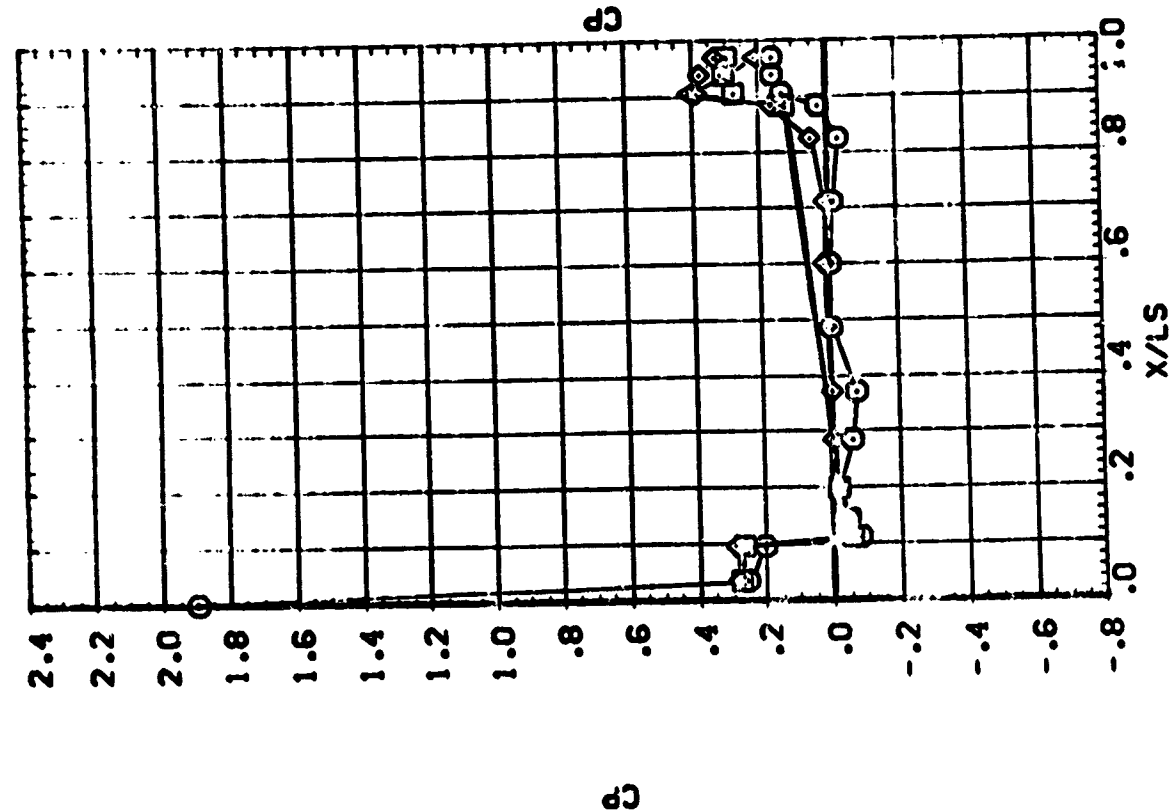
LONGITUDINAL DISTRIBUTION OF SRV BOOSTER PRESSURES

AVES 87-707 :A9 C24 - S3 - 9 SRV BOOSTER

(R3\SC6)

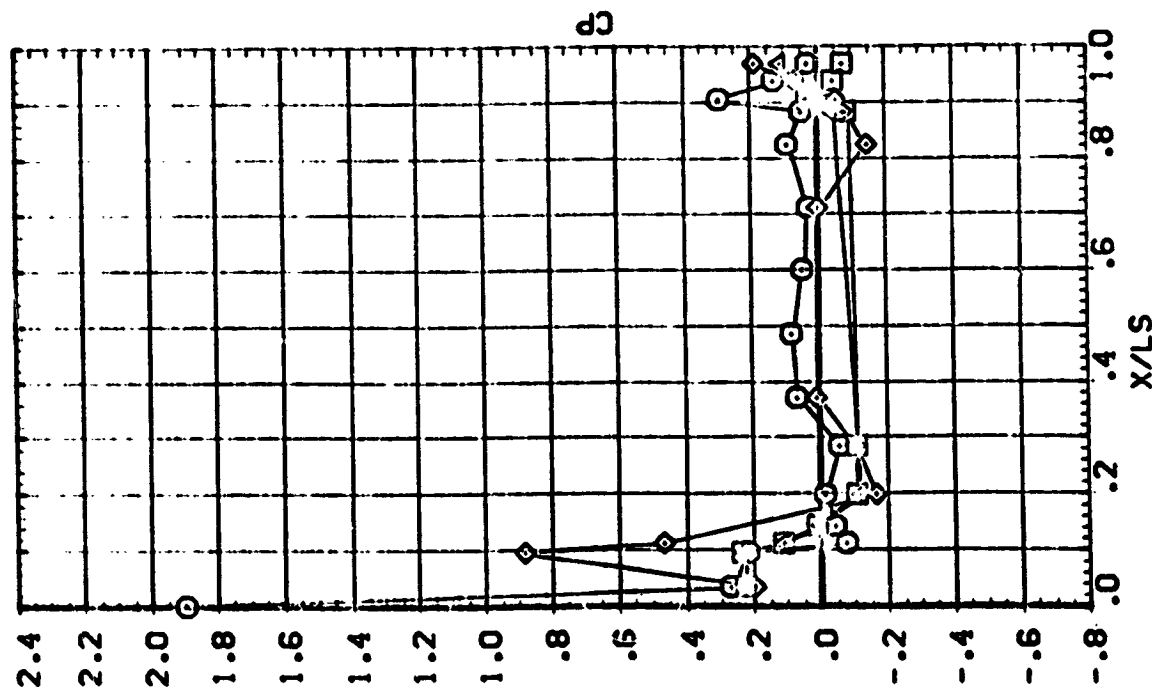
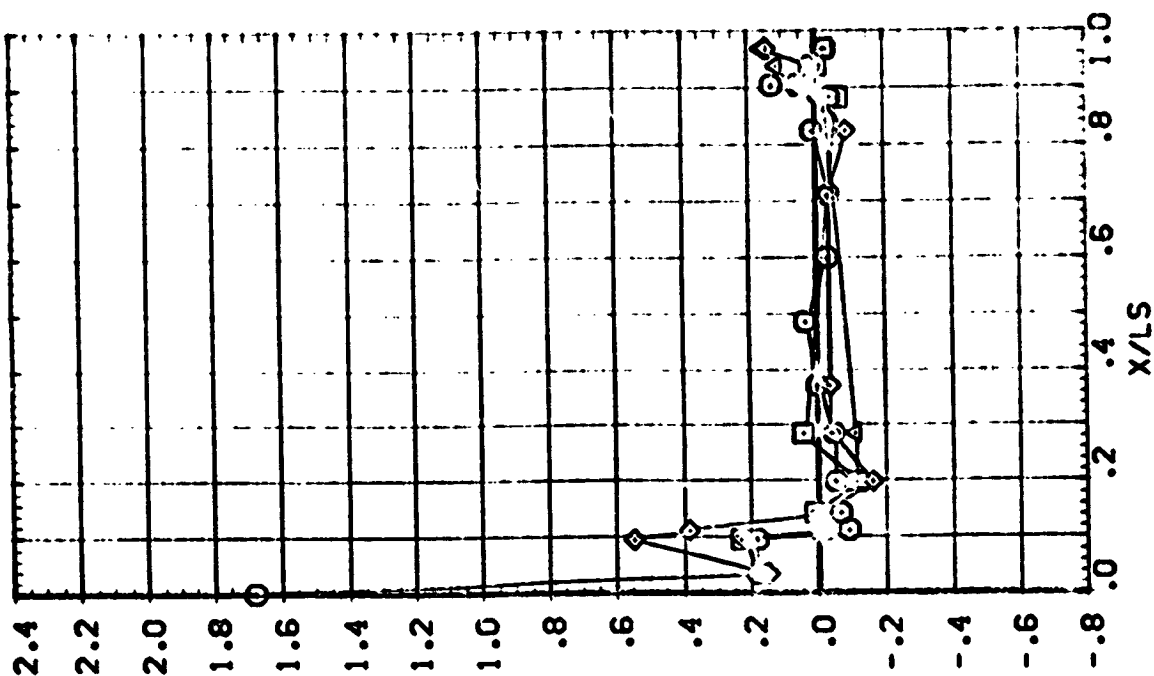
PARAMETRIC VALUES
 ALPH
 BOOST
 BOOSTER

PARAMETRIC VALUES
 C991C
 ELEV
 1.000
 1.000
 1.000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

1. 2. 3.



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

3:1 3:54c

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AVES 87-707 :A9 C2A - S3 - 9 SRV BOOSTER

(R3\SC5)

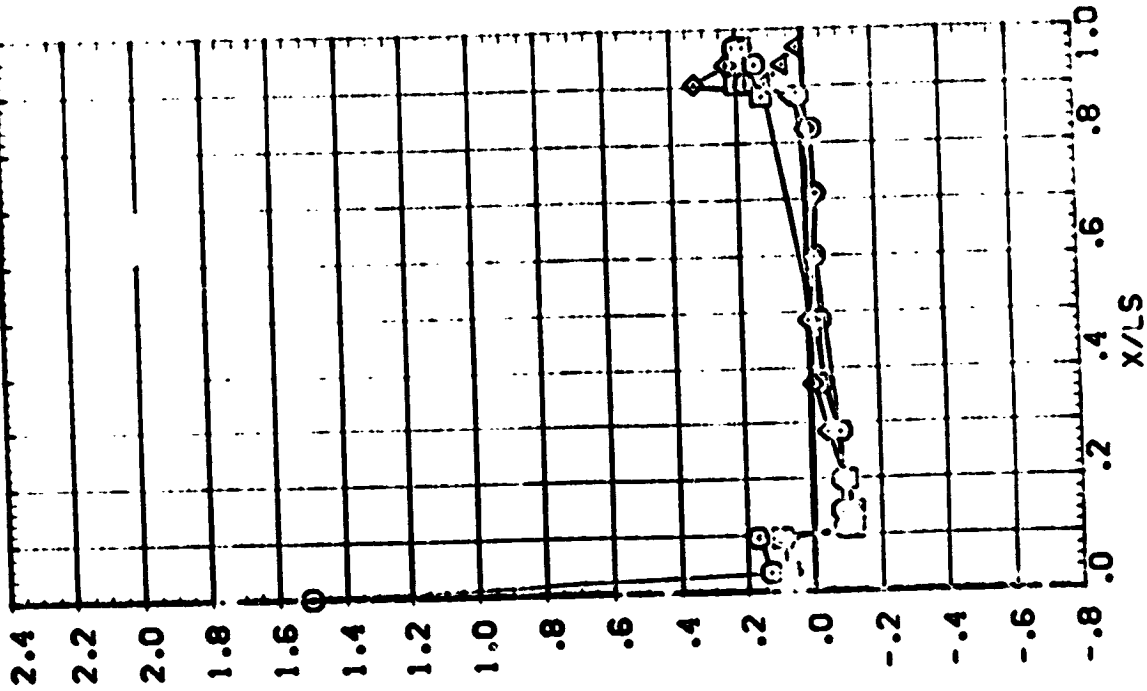
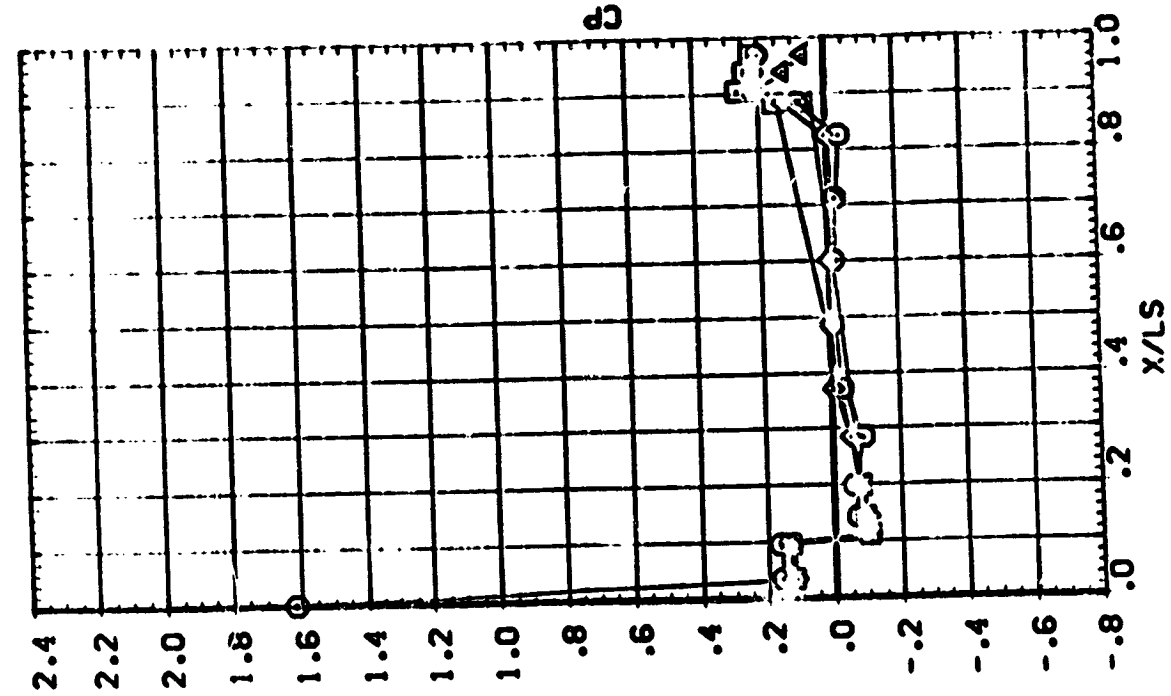
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PA: .000
45.000
90.000
135.000

BETAT WACH
4.280 2.498
8.340

PARAMETER VALUES

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RPM 1000
RPM 1000
ELEV .000



LONGITUDINAL DISTRIBUTION OF SRV BOOSTER PRESSURES

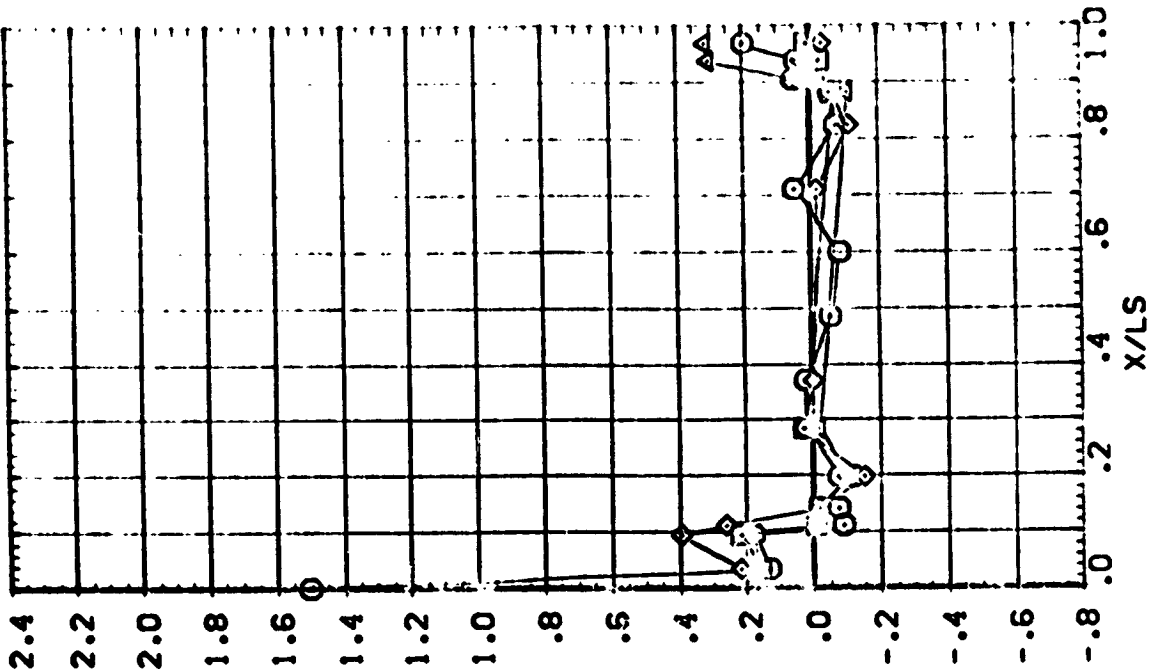
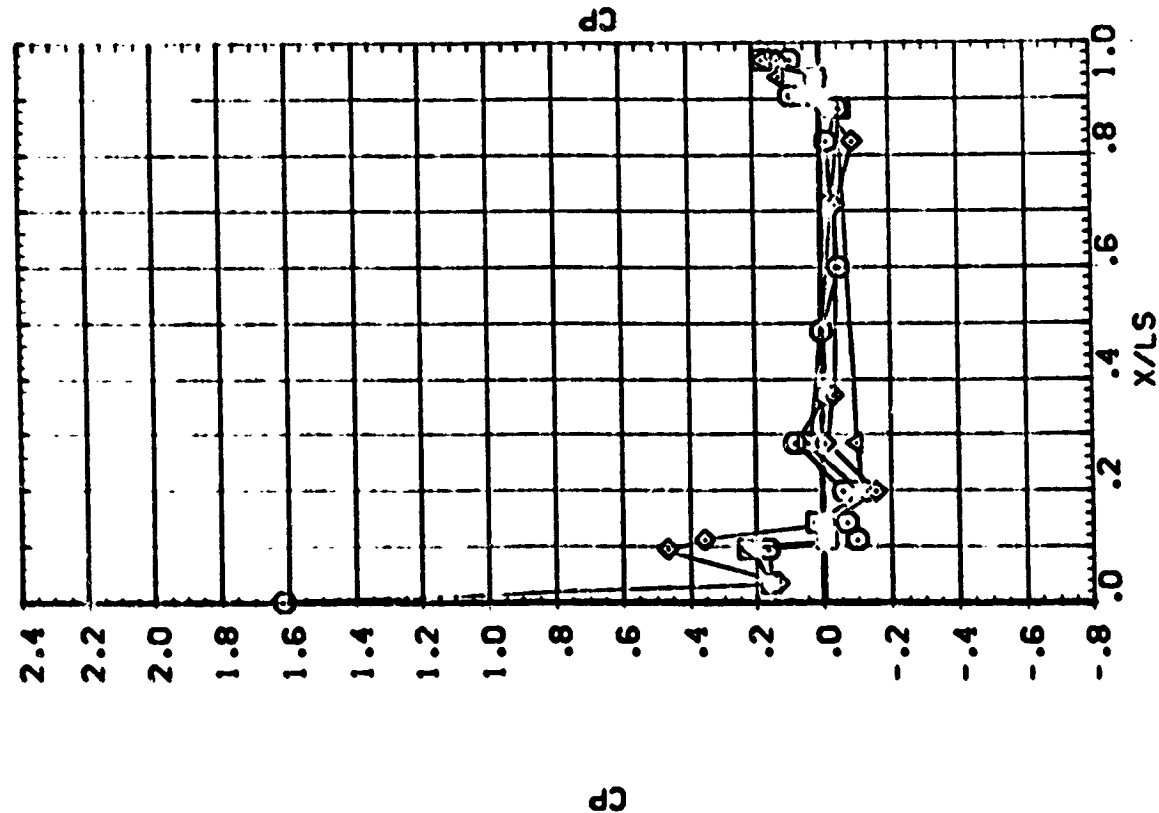
AVES 87-707 149 02A - 53 - 00 500 5000 1

1431508

SYSC
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SEAL WAC
180.000 4.780 2.489
275.000 8.540
275.000
315.000

PARAMETRIC VALUES
ALPHAT .000 999.0
RUDDER .000 555.0
RUDFLR .000 1.000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

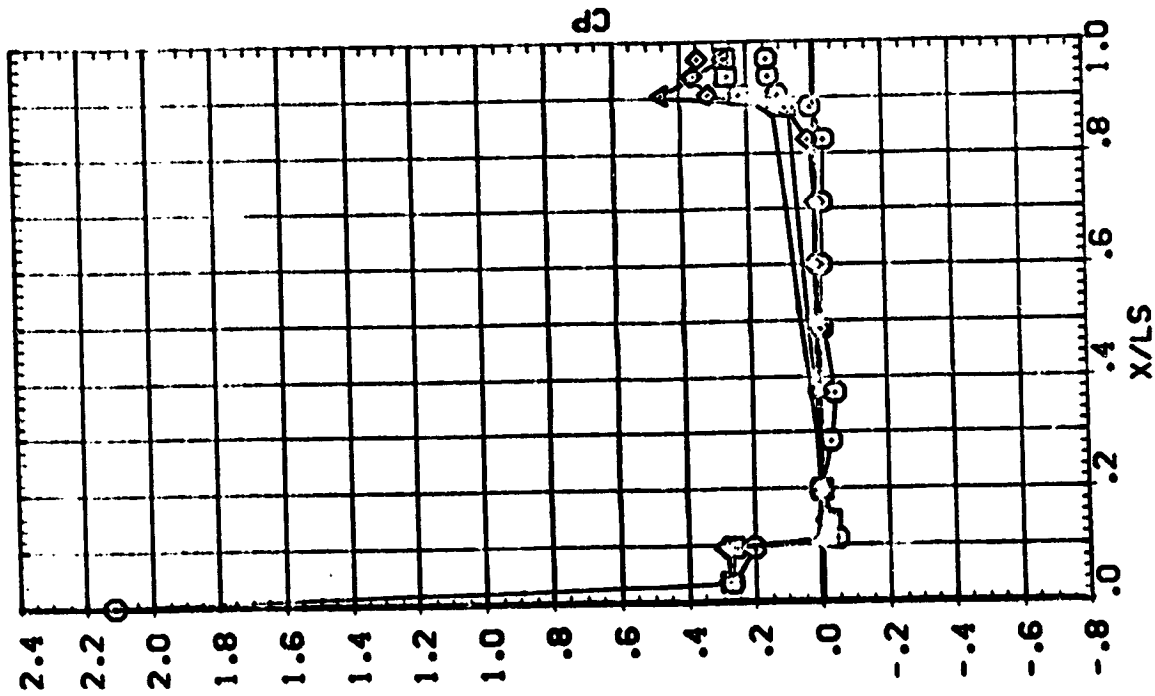
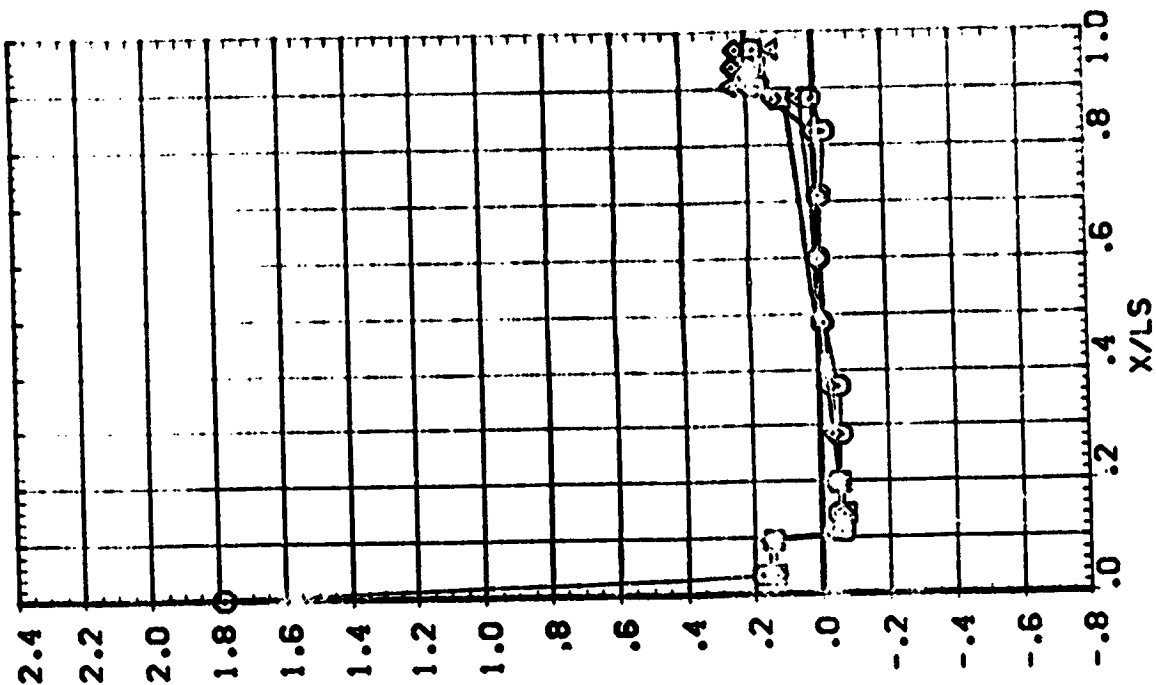
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(RBN5C6)

AVES 87-707 IAS 32A + S3 + 19 SRM BOOSTER

SYMBO: .000
 .45.000
 .95.000
 :35.000
 BETAT: -4.270
 2.210
 MACH: 2.999
 GEOMETRIC VALUES
 ALPHA: .000
 RUDER: .000
 RUFLR: .000
 .500
 .000
 .000

SYMBO: .000
 .45.000
 .95.000
 :35.000
 BETAT: -4.270
 2.210
 MACH: 2.999
 GEOMETRIC VALUES
 ALPHA: .000
 RUDER: .000
 RUFLR: .000
 .500
 .000
 .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

SYBC
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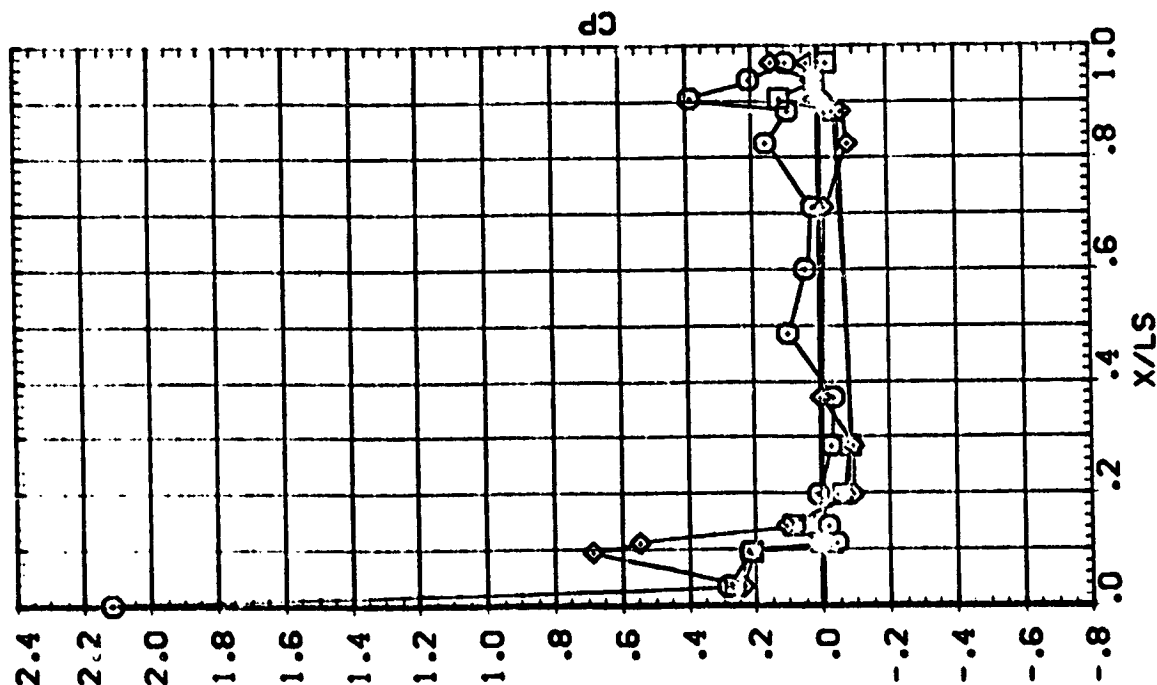
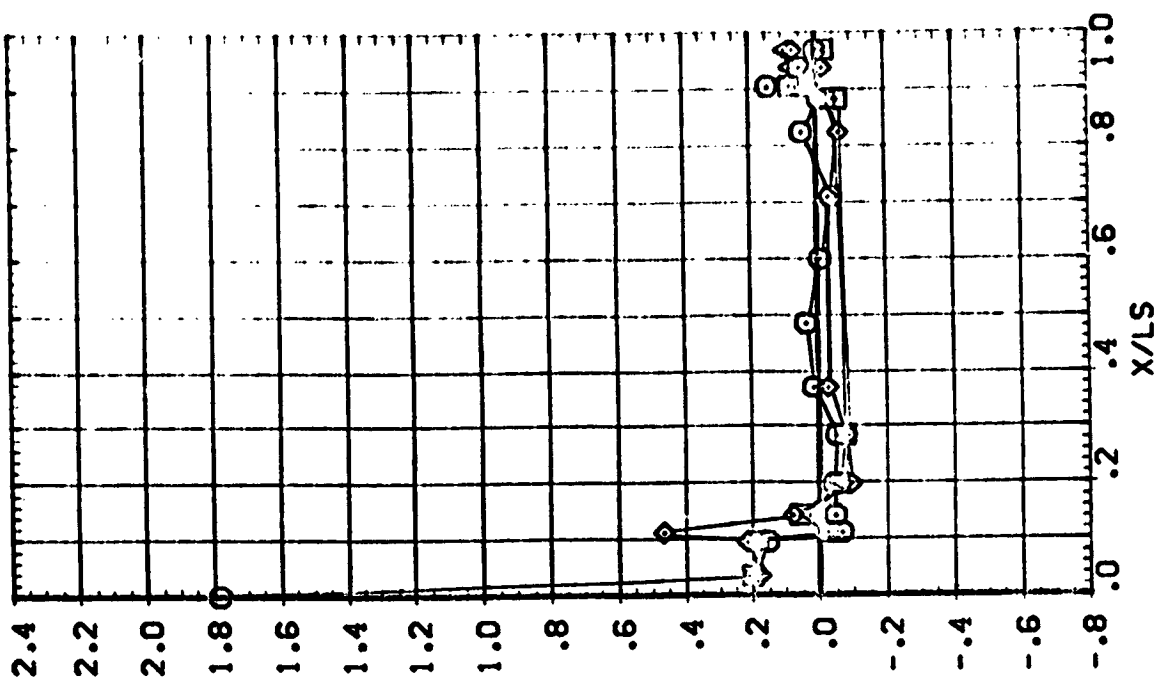
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180.000
275.000
275.000
315.000

BE'A
-4.270
2.210

WACH
2.999

PARAMETRIC VALUES
ALPHA
RUDER
RUDFLR

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.000
.000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AVES 87-707 : A9 C7A + S3 + 19 SPR BOOSTER

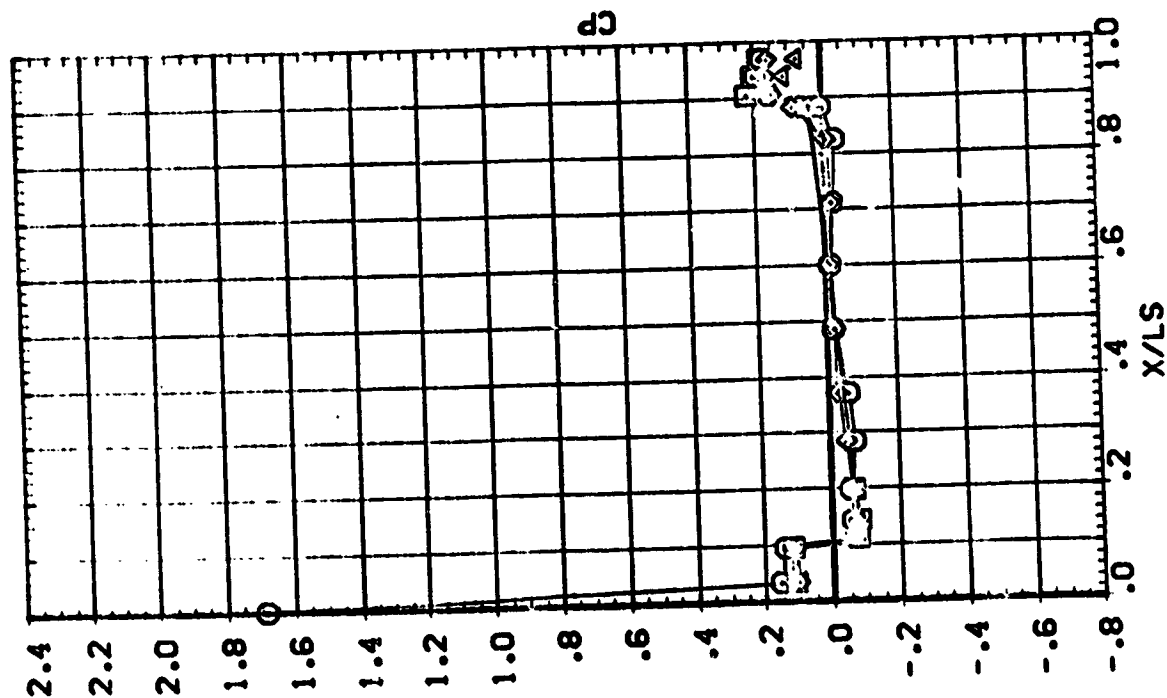
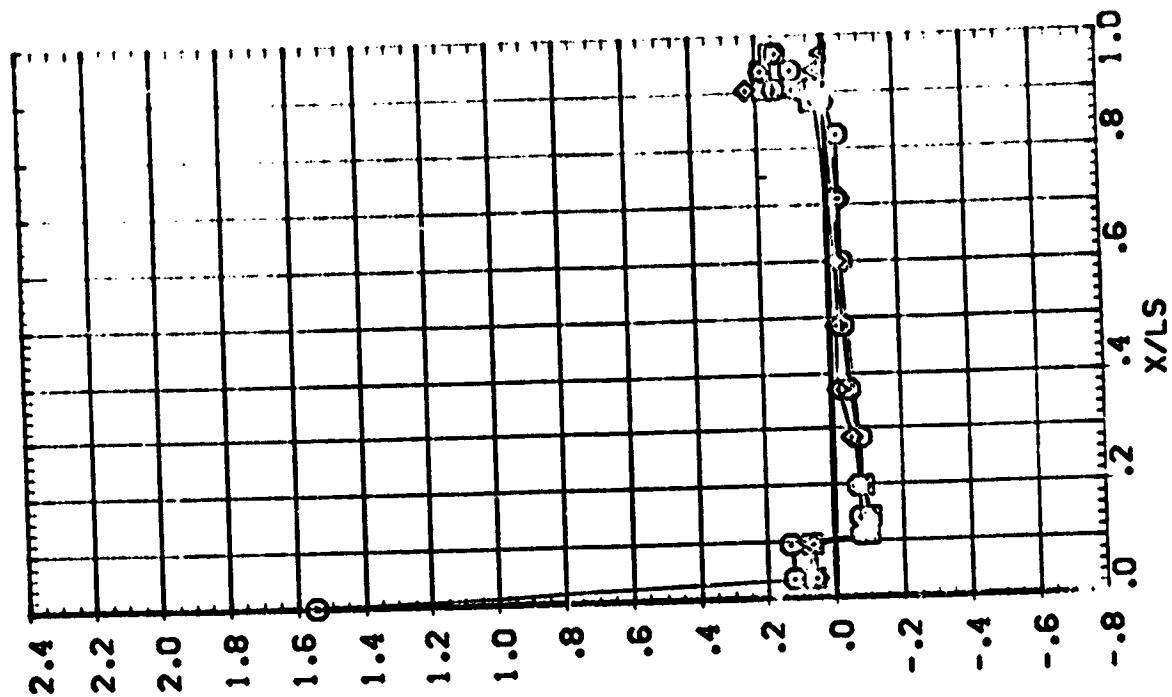
(RBNSC6)

SECRET

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8.6000	4.370		
1.0000			

ALPHAT
RDOER
RDOFLR

PARAME:R:IC VALUES



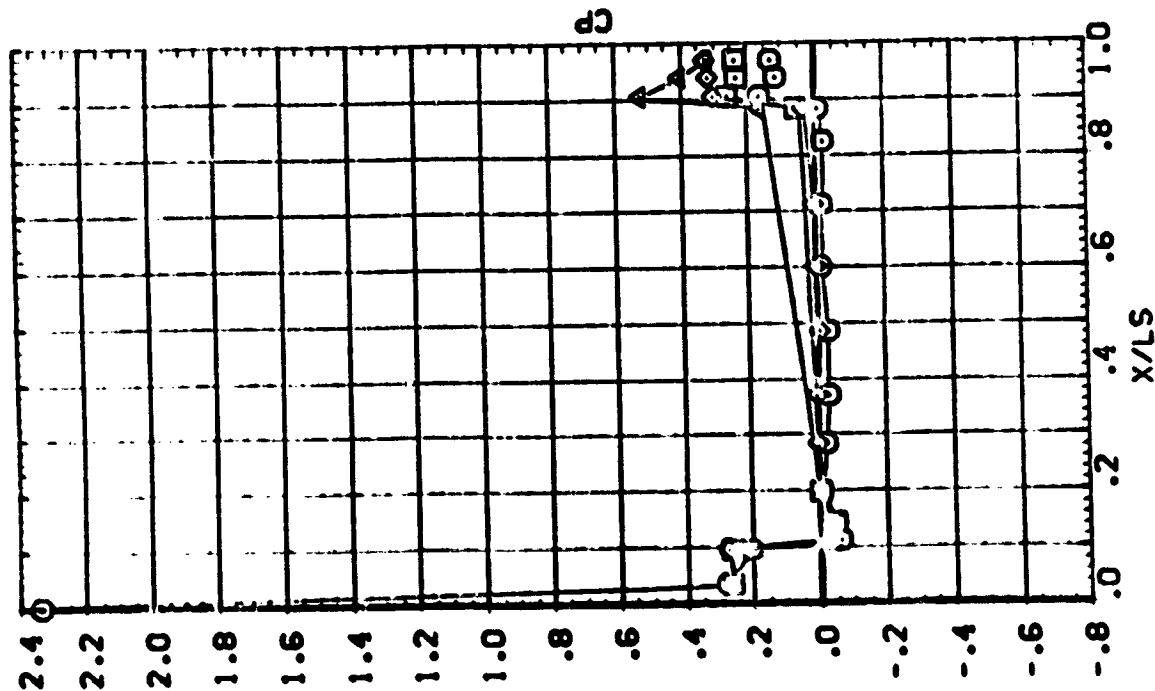
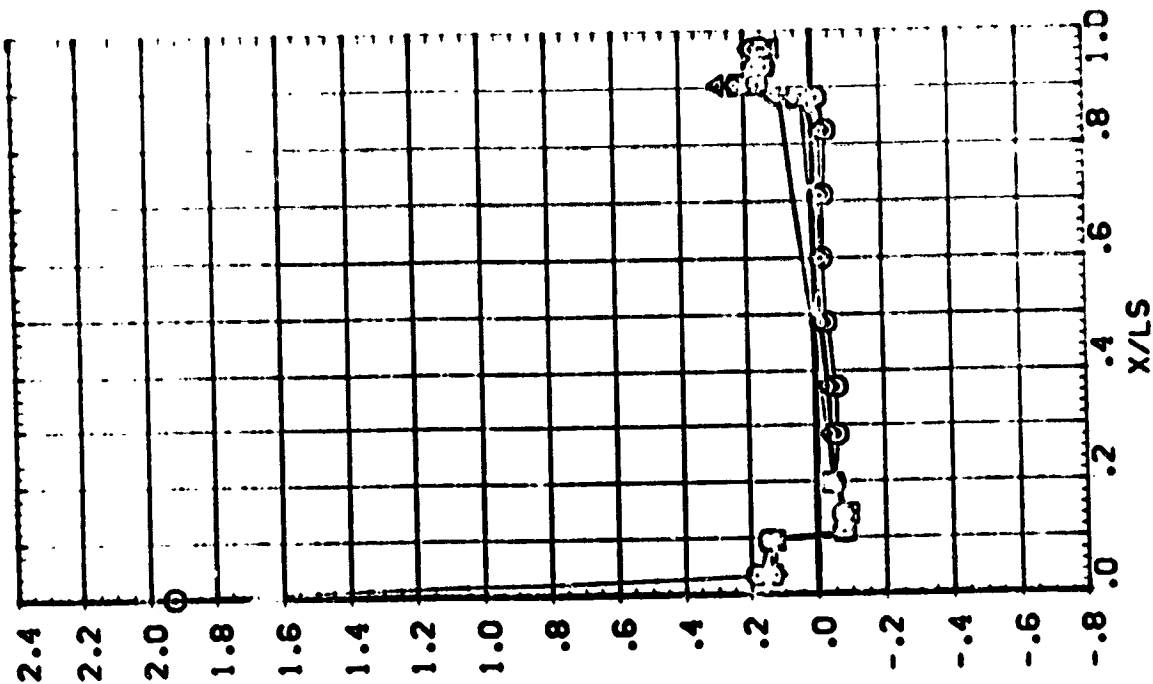
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AVES 87-707 :A9 C2A • S3 • '9 SRM BOOSTER

(RB\SC6)

9.000
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45.000
90.000
135.000
BETA
4.342
2.762
WCO
3.507

ALPHAT
RUDER
RUDLR
PARAMETRIC VALUES
1.000
1.000
1.000
1.000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AVES 87-707 :A9 C2A - S3 - '9 SAV BOOSTER

(RANSSES)

S.W.P. 180.000
 270.000
 360.000
 450.000
 540.000
 630.000
 720.000
 810.000
 900.000
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(R3\SC6)

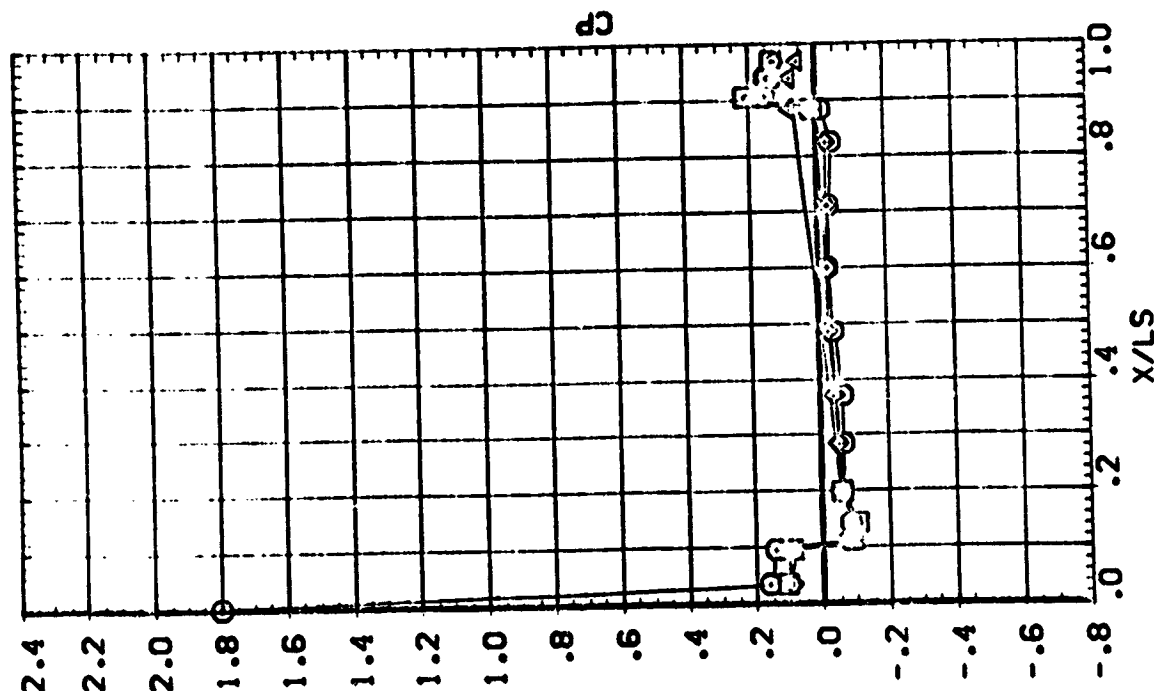
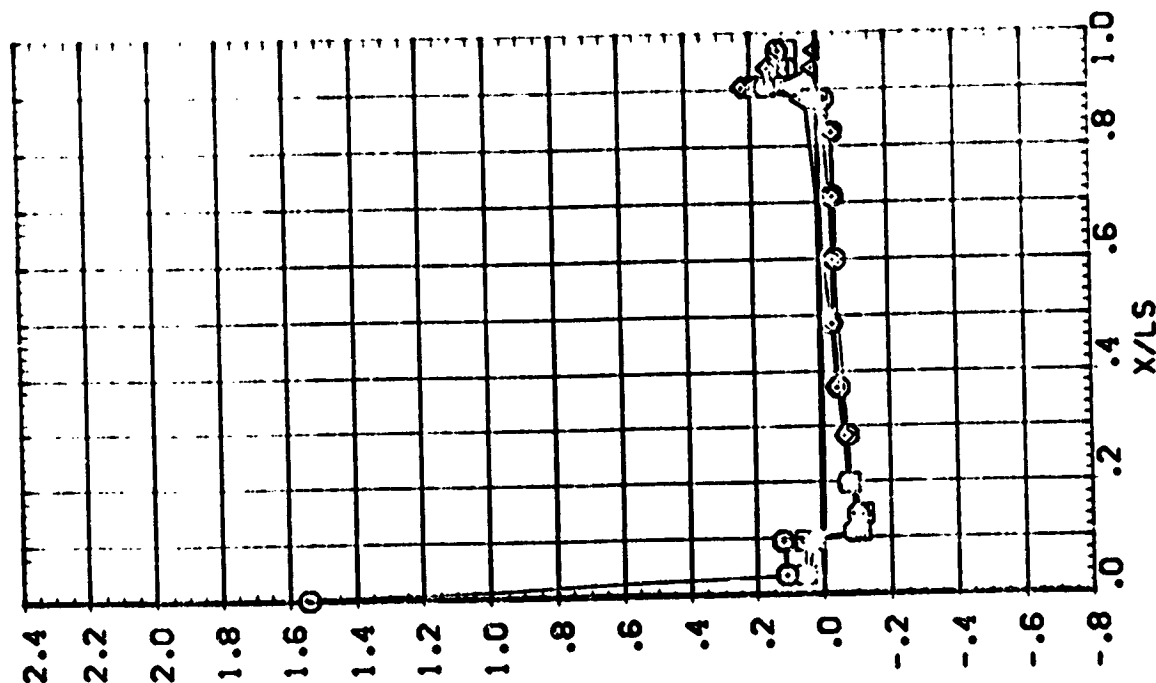
AVES 87-707 :A9 C2A - S3 - 19 SRV BOOSTER

SYNCH

0.000
45.000
90.000
135.000

BETA WACH
4.45C 3.502
8.05C

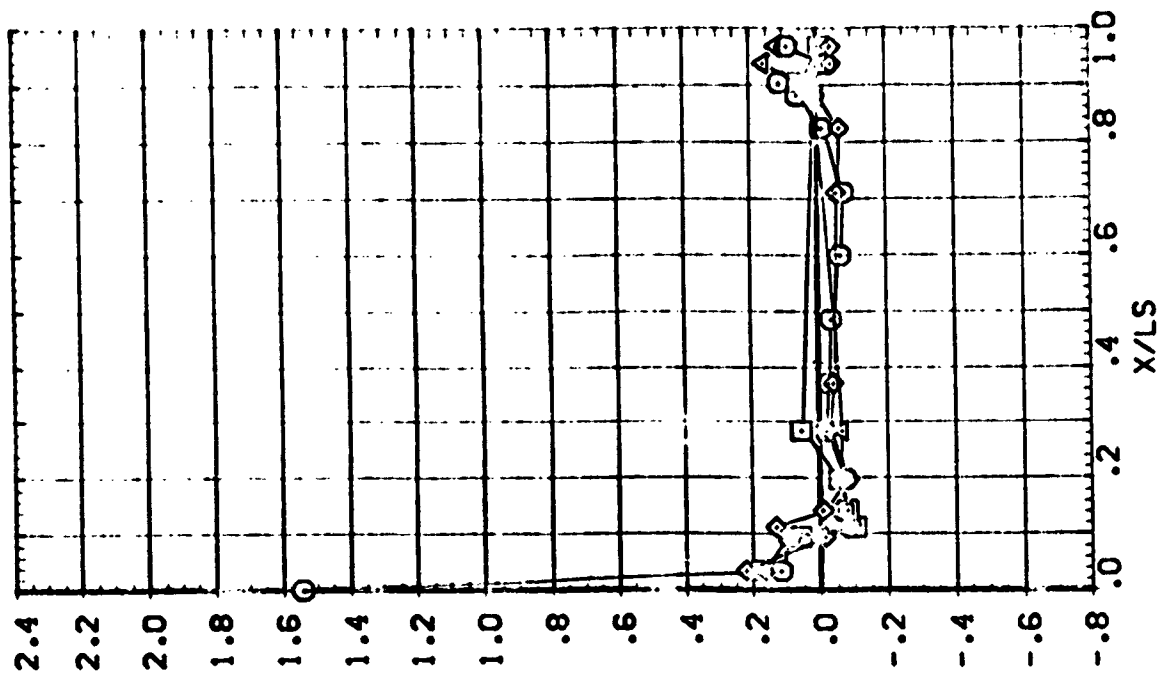
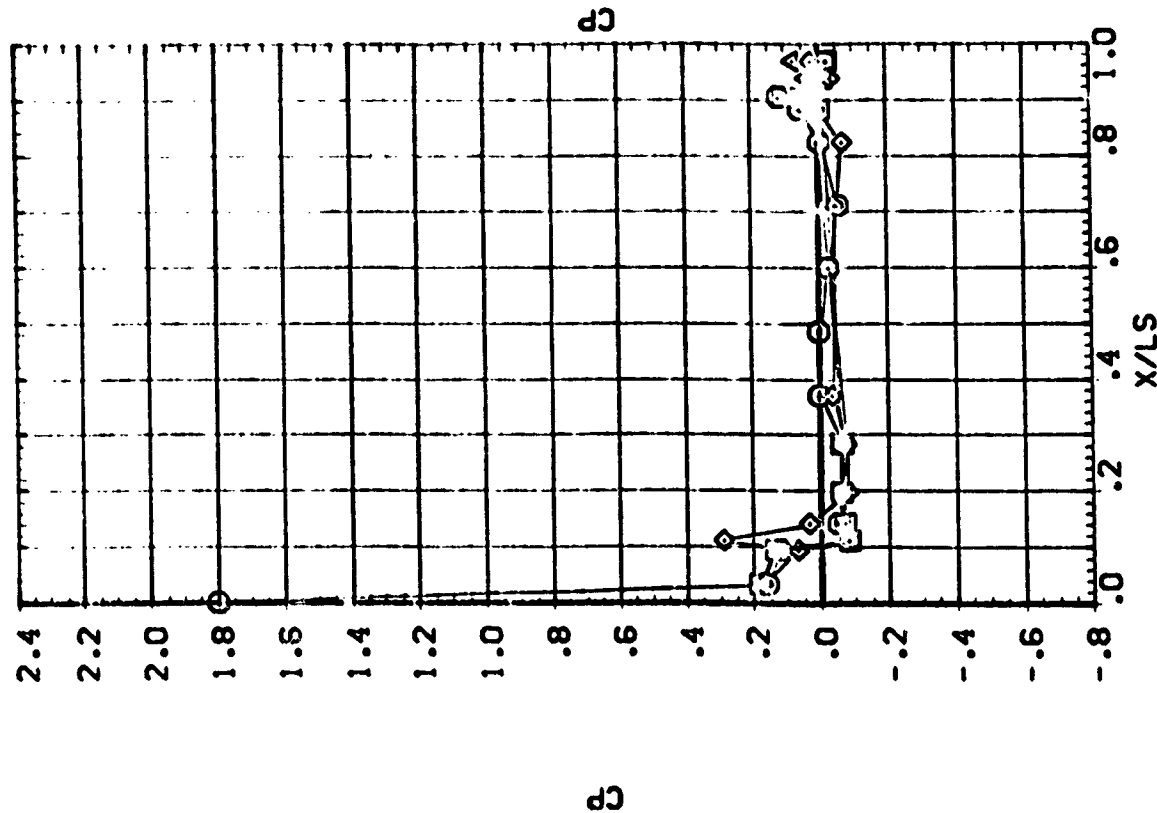
PARAMETRIC VALUES
ALPHA
POWER
RPOWER
0.000
0.000
0.000
0.000



LONGITUDINAL DISTRIBUTION OF SRV BOOSTER PRESSURES

SYNOPSIS
 180,000
 775,000
 770,000
 315,000

SEMI-MACH
 4.450
 8.850



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

PARAMETRIC VALUES
 ALPH
 RUCER
 PUSUR
 .500
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AVES 87-707 :A9 C2A - S3 - '9 SRV BOOSTER

(P3\SC8)

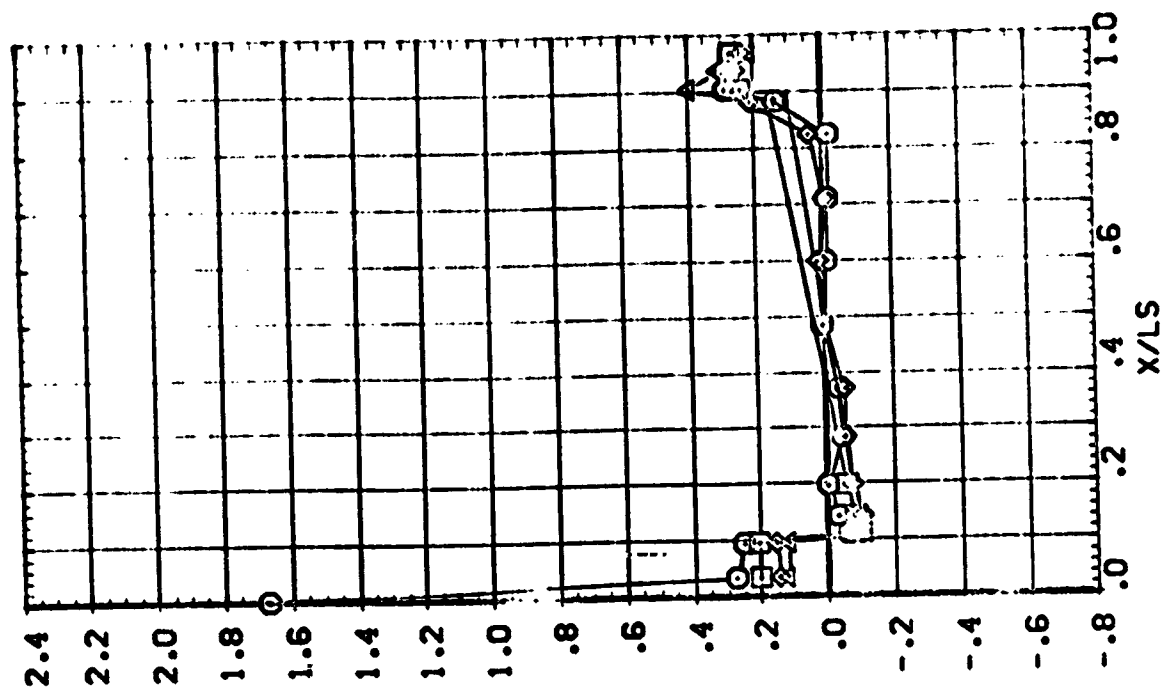
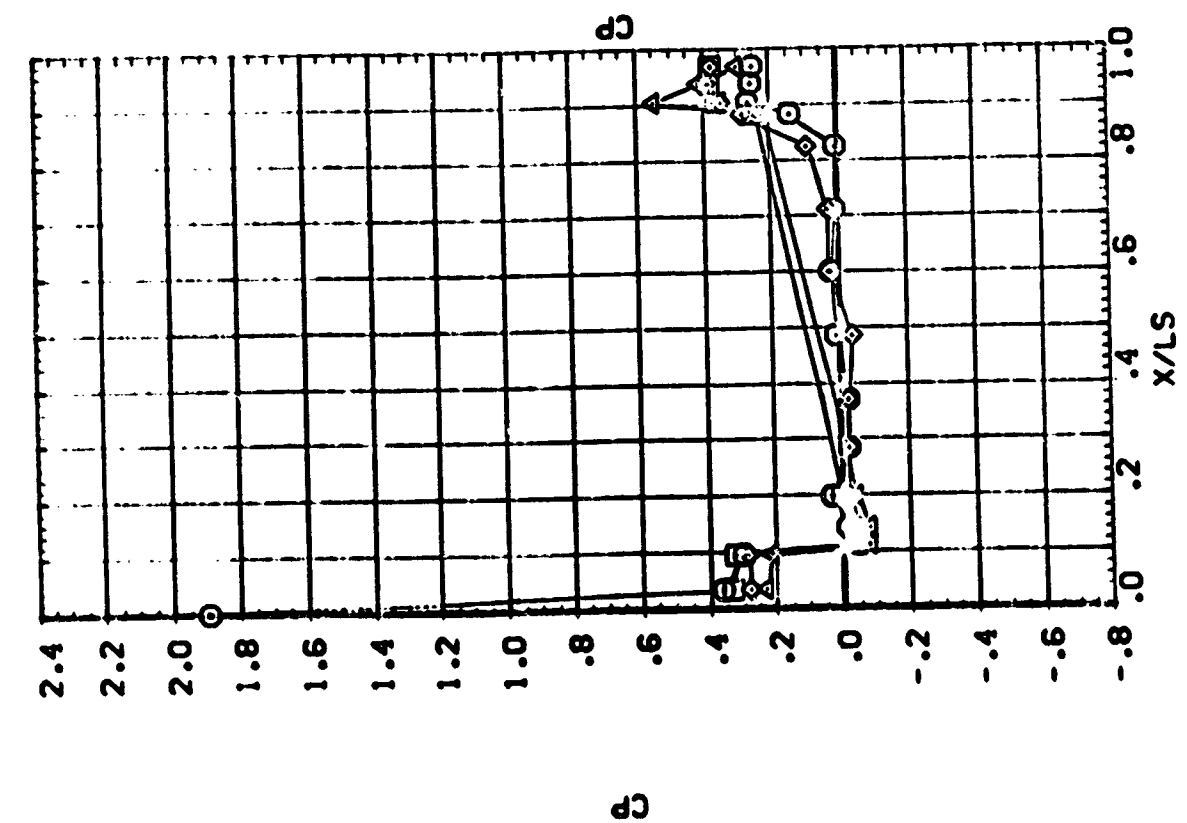
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2.498

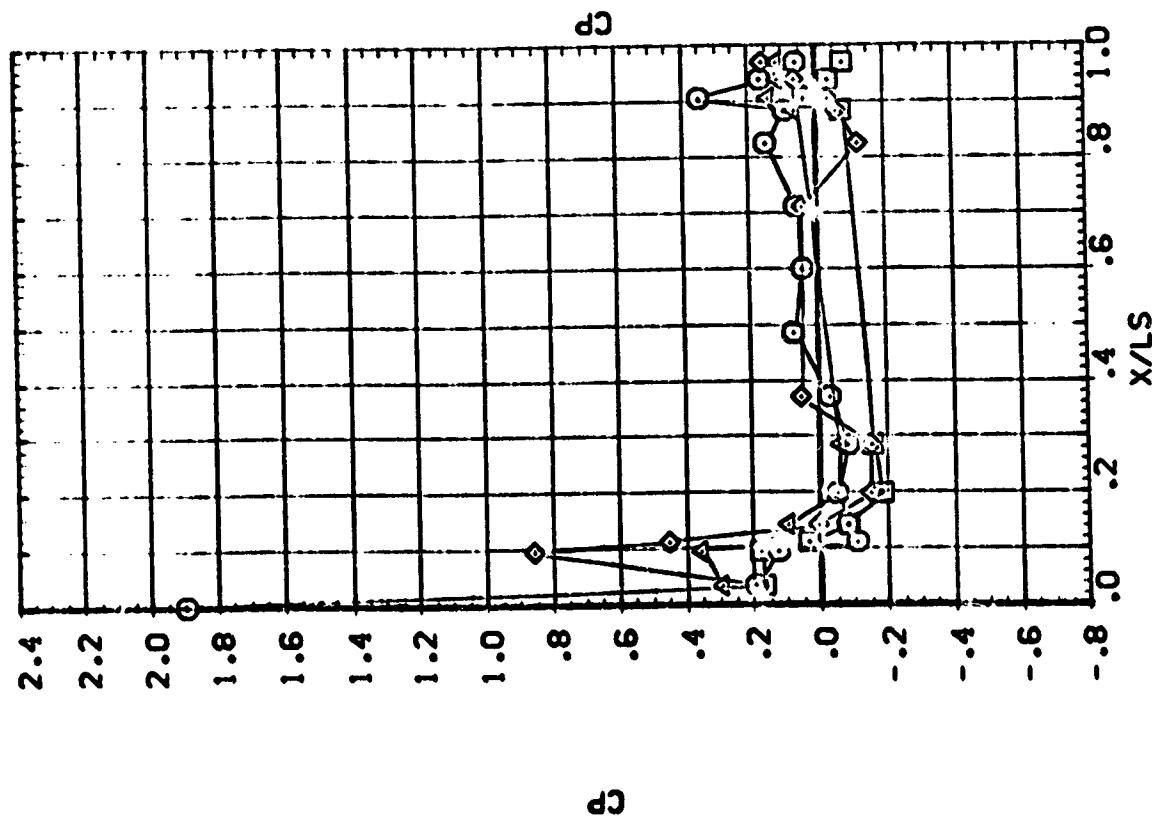
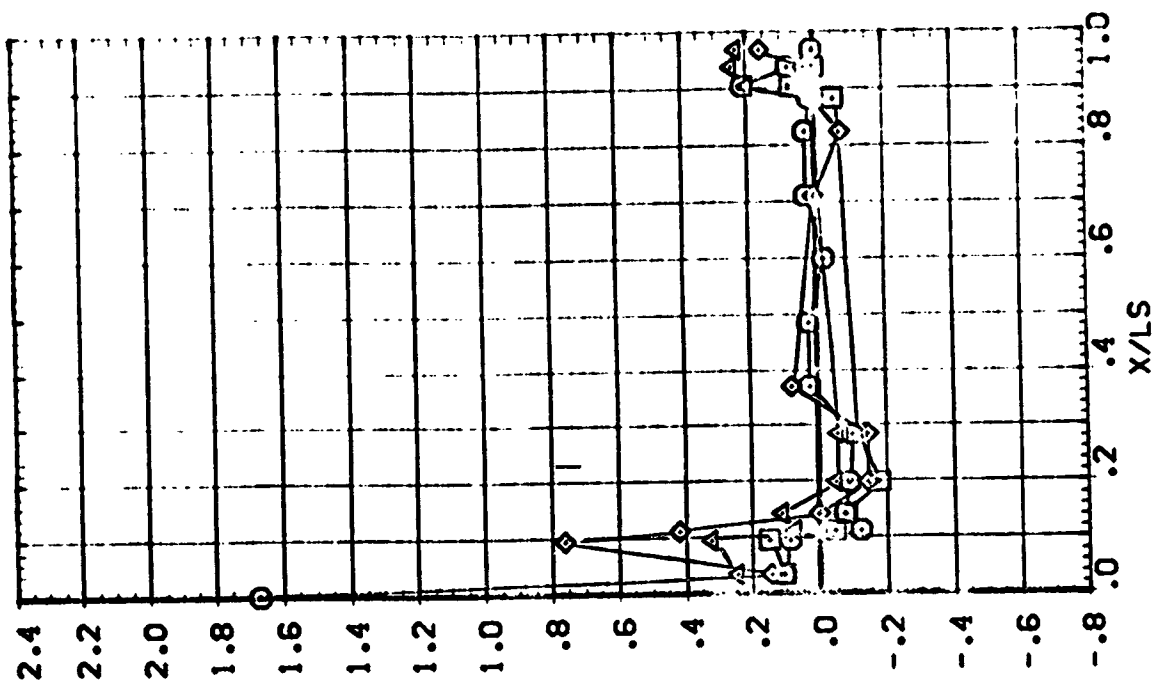
ALPHA
RATED
RATED
RATED

PISTONIC VALUES
4.000
1.000
1.000
1.000



LONGITUDINAL DISTRIBUTION OF SRV BOOSTER PRESSURES

مبلغ	عدد	مبلغ
165.000	-4.000	2.400
775.000	7.700	



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

276. 221.

==

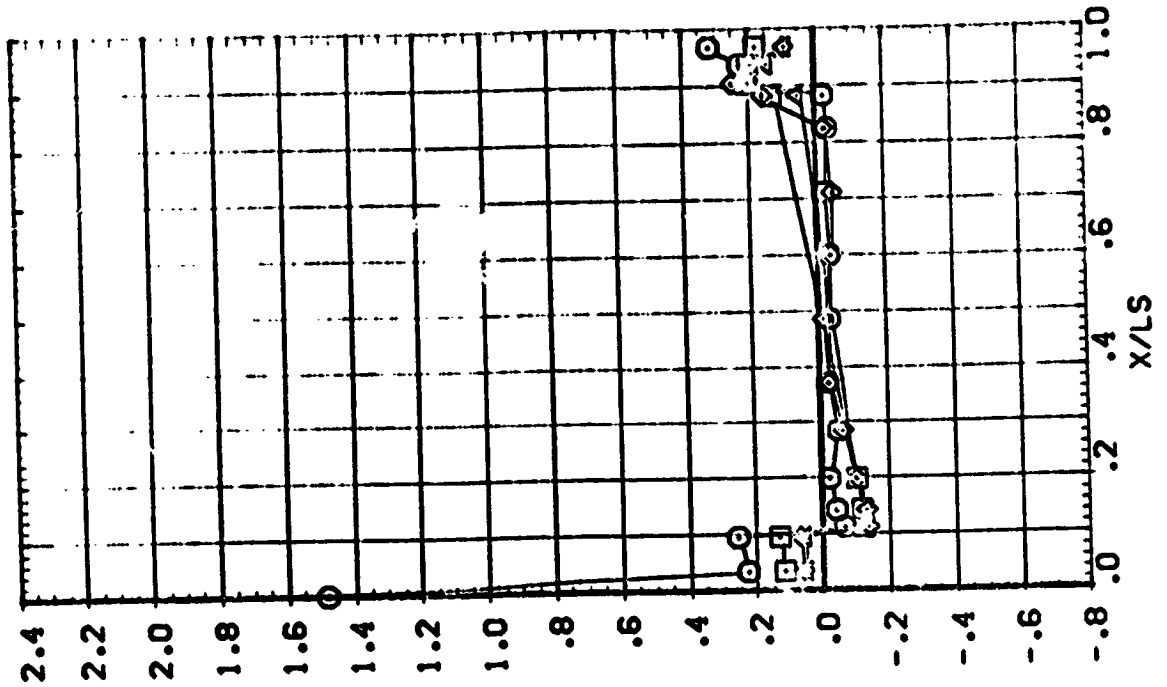
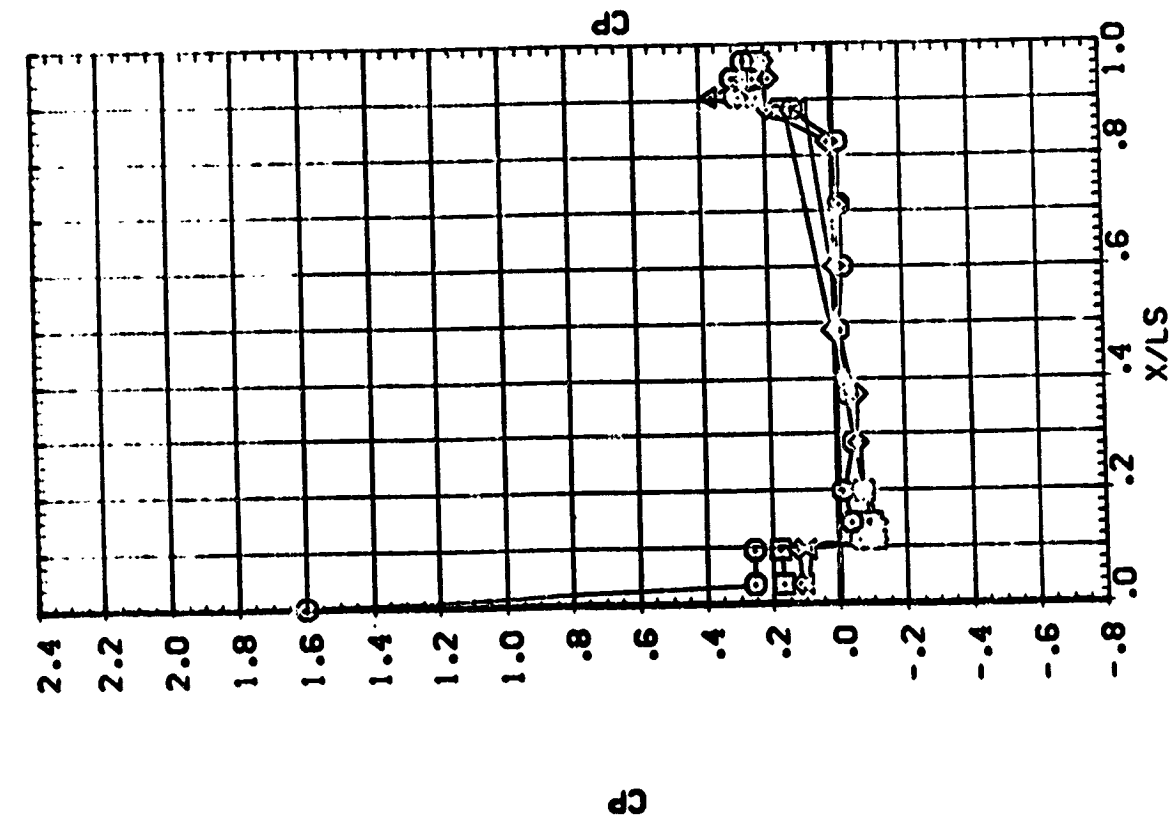
AVES 87-707 :A9 C2A - S3 - '9 SRM BOOSTER

(R3\SC8)

SAVEC
0.000
45.000
90.000
135.000

BEAT: PAC-
4.300 2.498
8.550

PARAMETRIC VALUES
ALPHA: 500.00
RJSER 1.000
RJSER 1.000
ELEVN 1.000
500.000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

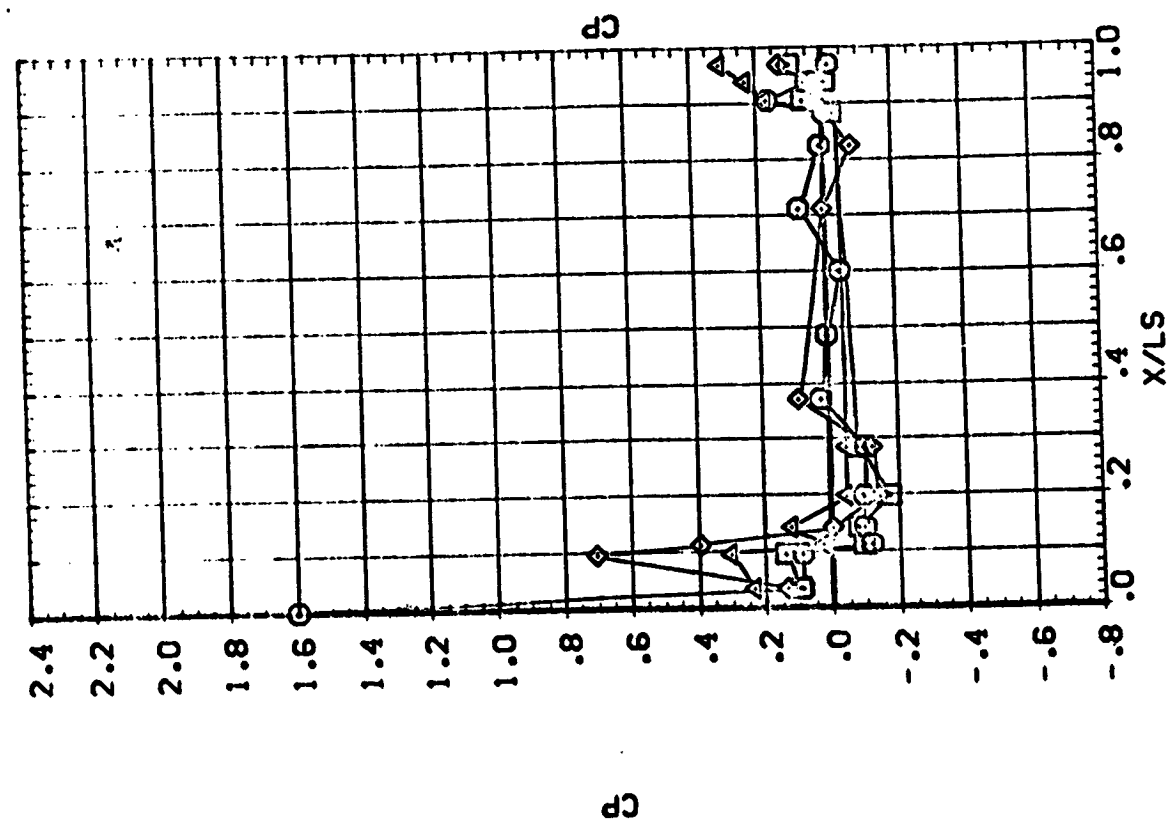
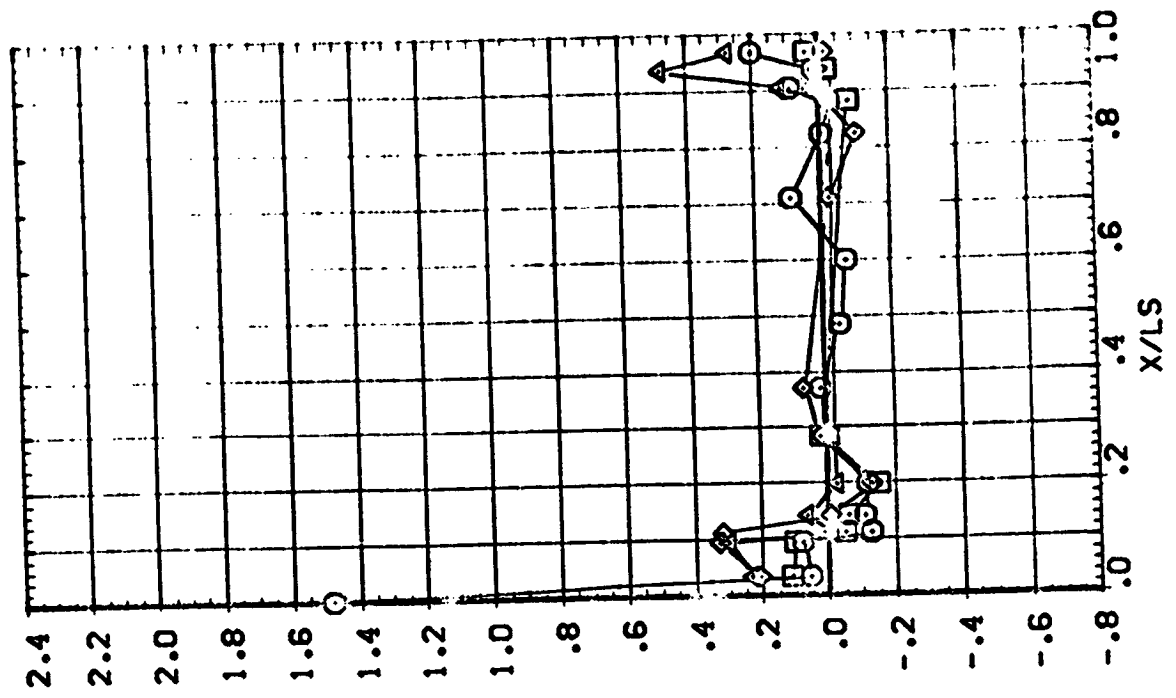
(RBN508)

AVES 87-707 149 C2A - S3 - 19 SRV BOOSTER

PARAMETRIC VALUES
ALPHA 4.000 39810
RUDER 1.000 1000
RUDLR 1.000 1000

SMC
180.000
775.000
775.000
315.000

BEAT 4.300 2.498
WACH 8.550



LONGITUDINAL DISTRIBUTION OF SRV BOOSTER PRESSURES

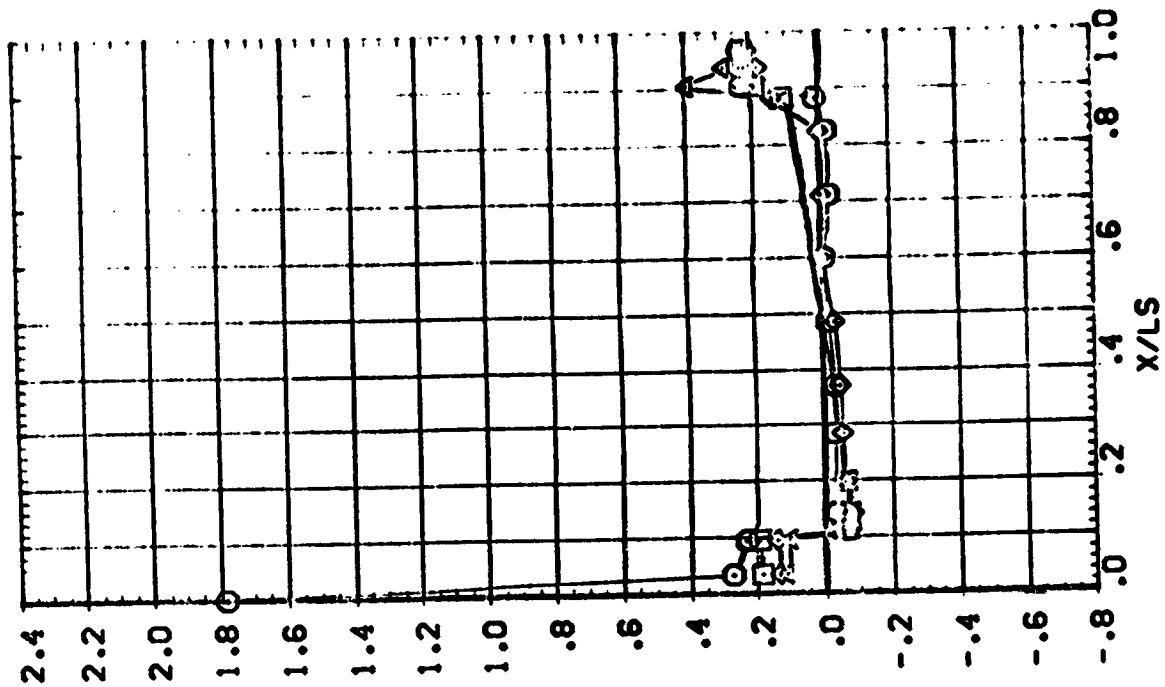
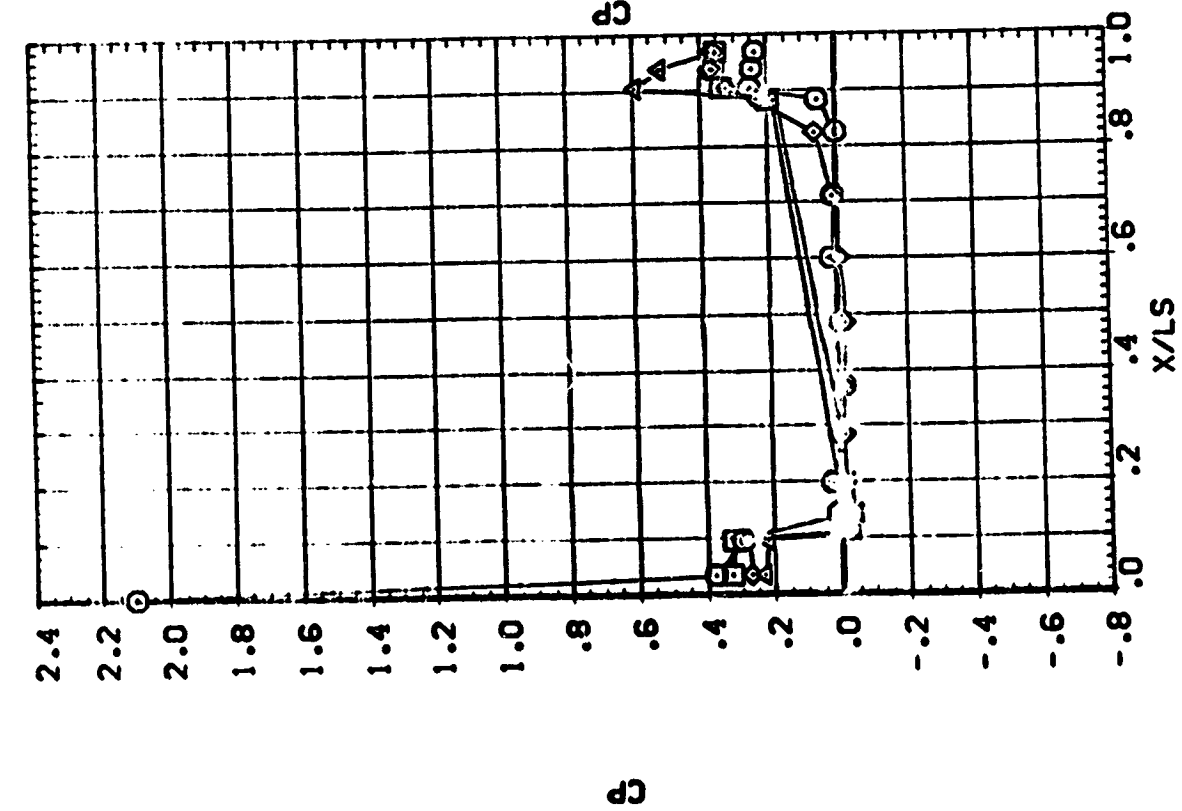
AVES 87-707 1A9 02A + S3 - 19 SRV BOOSTER

(RBN508)

SYMC-
O
◇
△

PA: BEAT WAC-
.000 -4.260 2.999
45.000 2.210
90.000
135.000

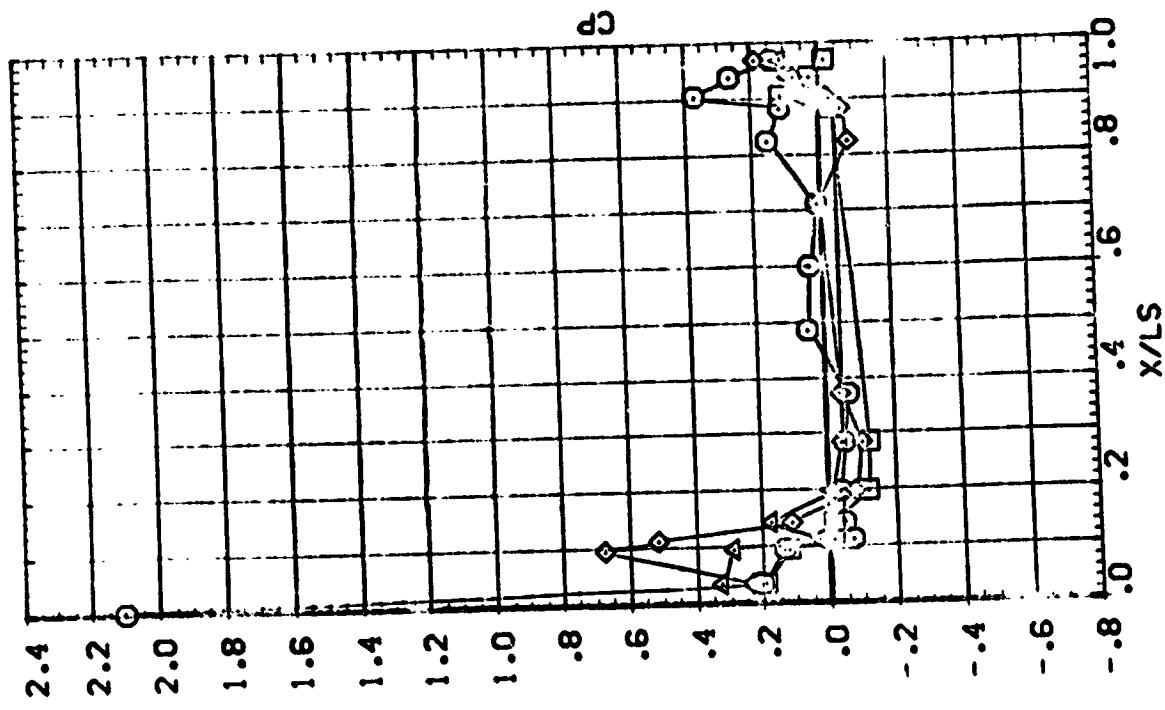
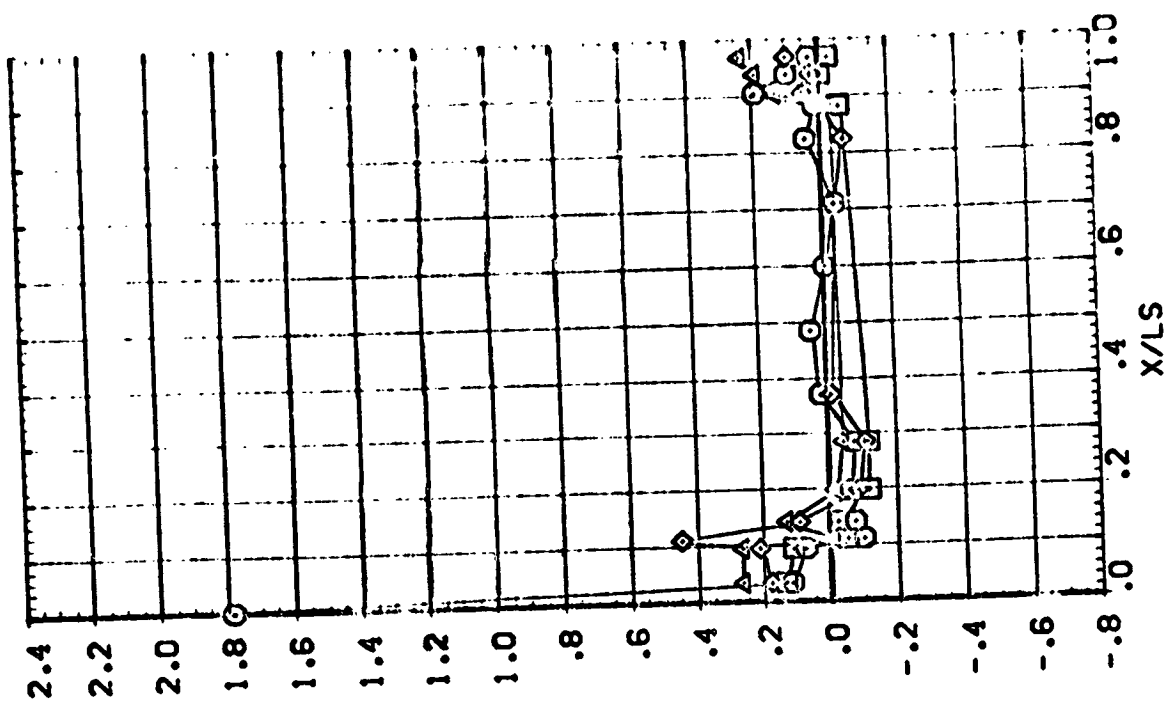
PARAMETRIC VALUES
ALPHAT 4.000 0.000
RQDER 0.000 0.000
RQDFLR 0.000 0.000



LONGITUDINAL DISTRIBUTION OF SRV BOOSTER PRESSURES

ALPH: 4.000 999.0
 RATED: .000
 RATED: .000

SVGC: 180.000
 275.000
 275.000
 315.000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

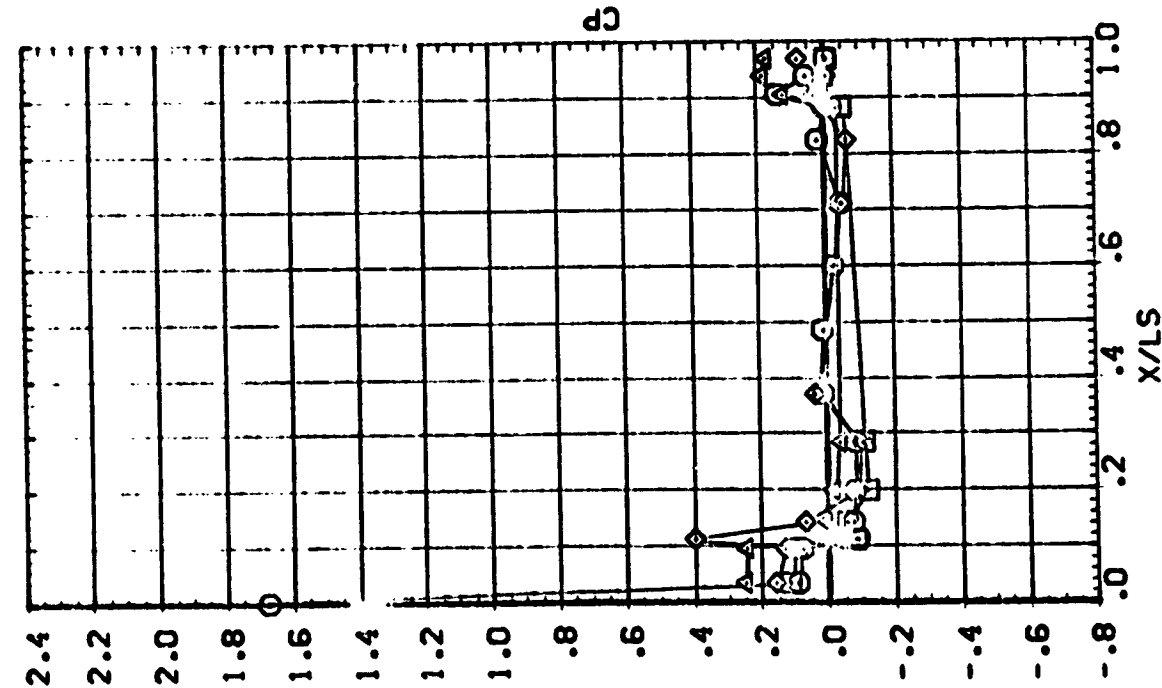
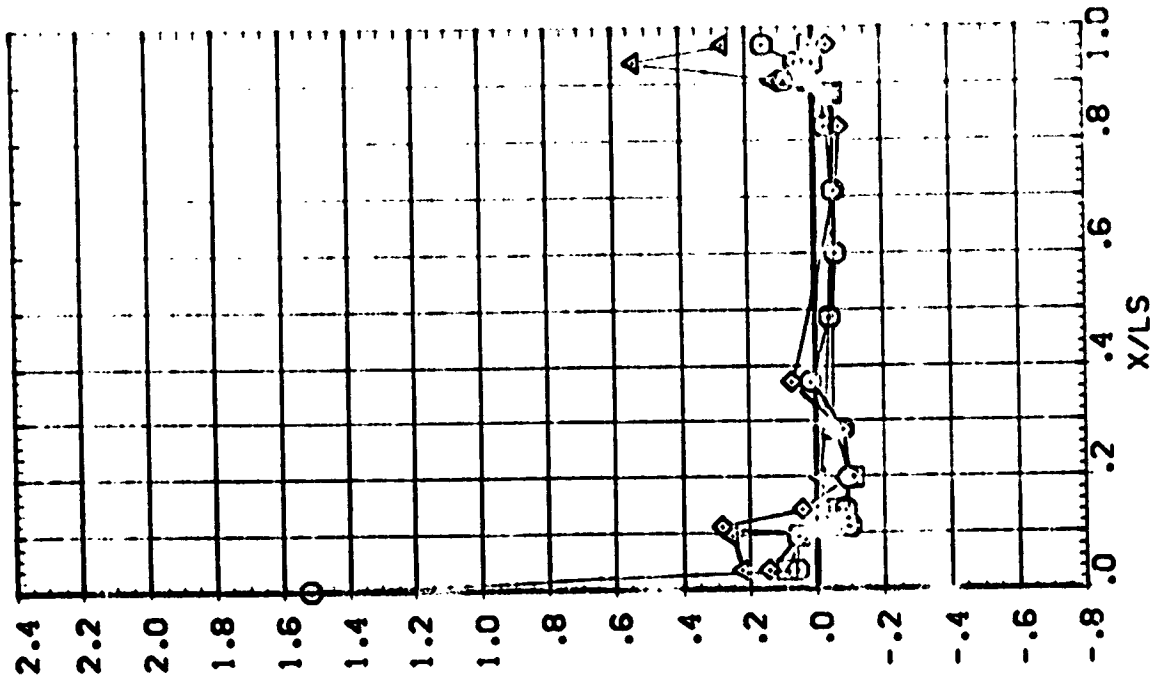
AVES 87-707 :A9 C2A - S3 - 9 SRV BOOSTER

(R3NS08)

PARAMETRIC VALUES
ALPHAT 4.000 59.12
RLODER 1.000 59.12
RLOSLR 1.000 59.12

S-VEC
180.000
275.000
275.000
315.000

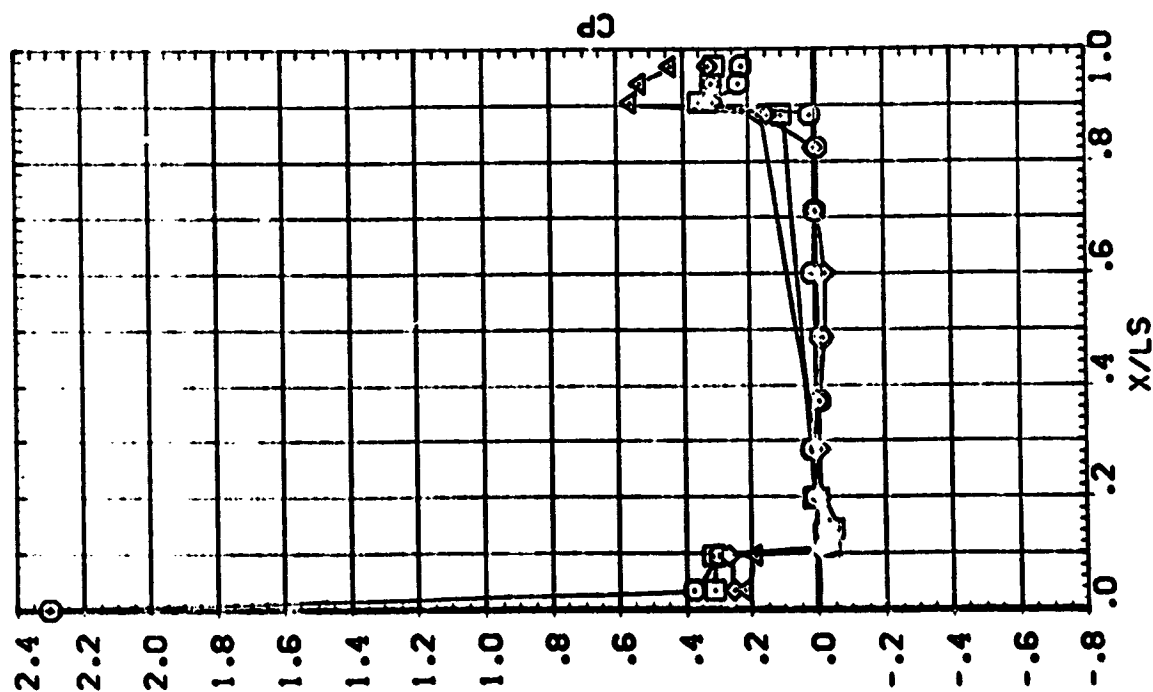
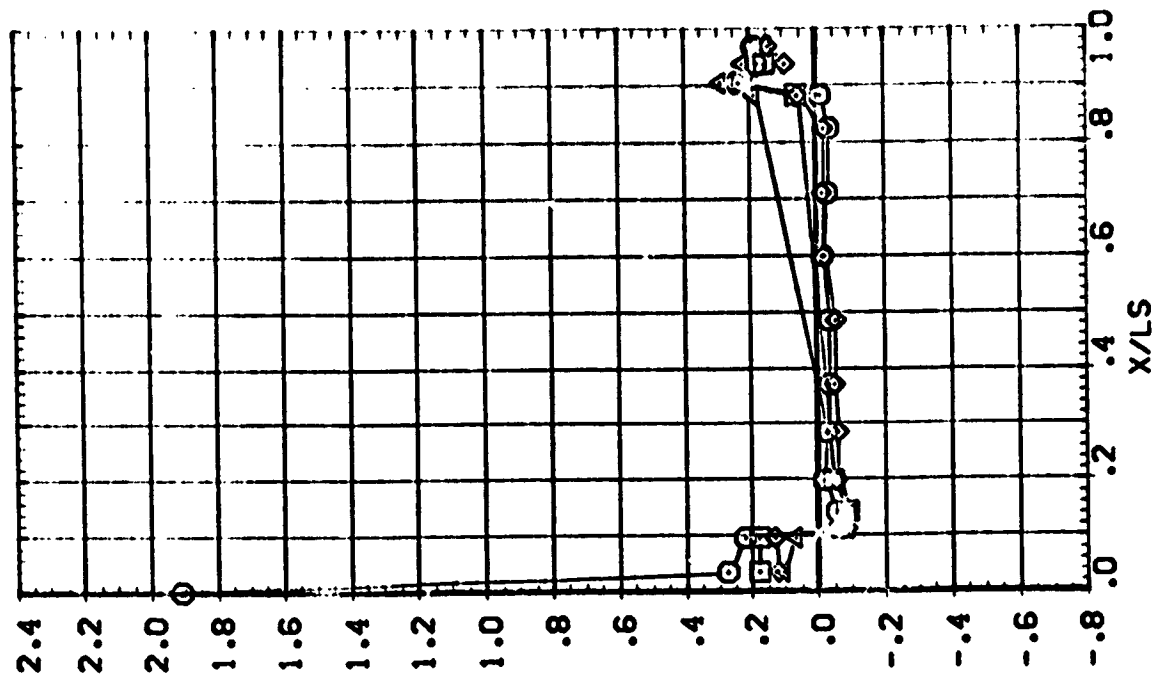
BEAT 4.375 8.000
WAC 2.000



LONGITUDINAL DISTRIBUTION OF SRV BOOSTER PRESSURES

AVES 87-707 :AG C2A + S3 + 10 SYM BUCSEER (R3\508)

PARAMETRIC VALUES	
ALPHA?	4.000
ORDER	.000
REFL R	.000
	999.0
	ELEV
	5.000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AVES 87-707 149 02A - S3 - '9 SRV BOOSTER

(RBN508)

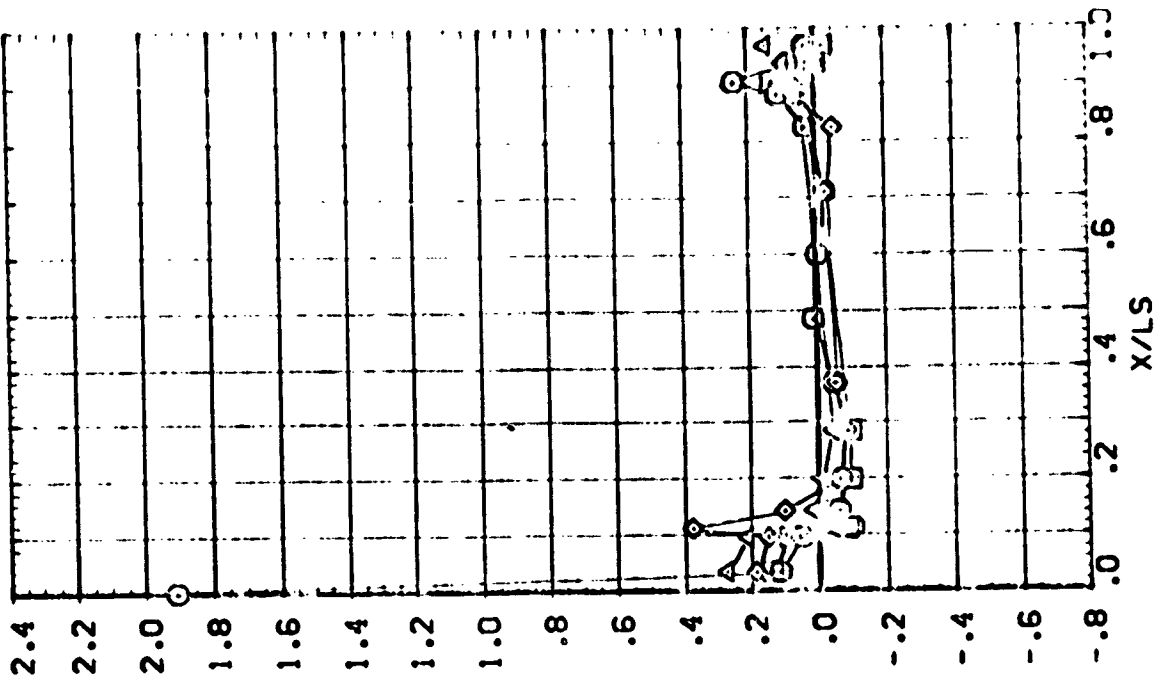
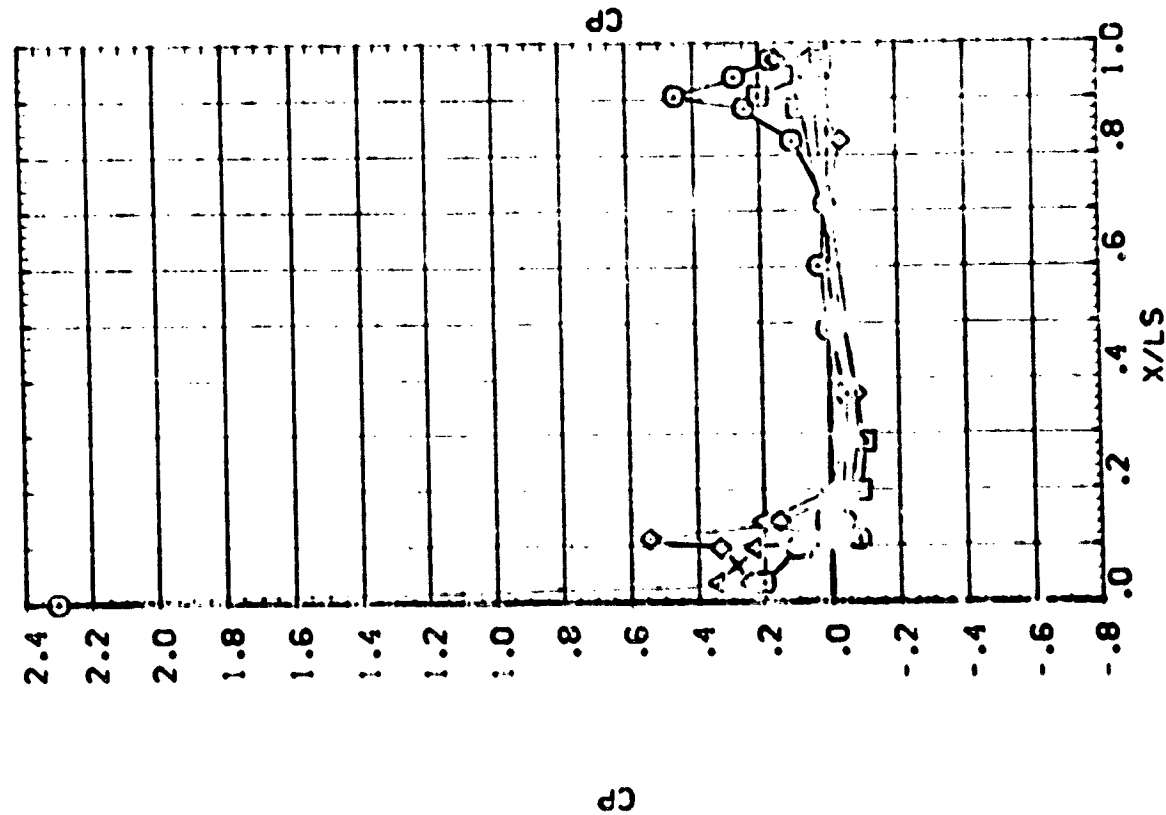
S-VE

100.000
225.000
270.000
315.000

SE "A" WAC
14.330 3.502
2.760

PARAMETRIC VALUES

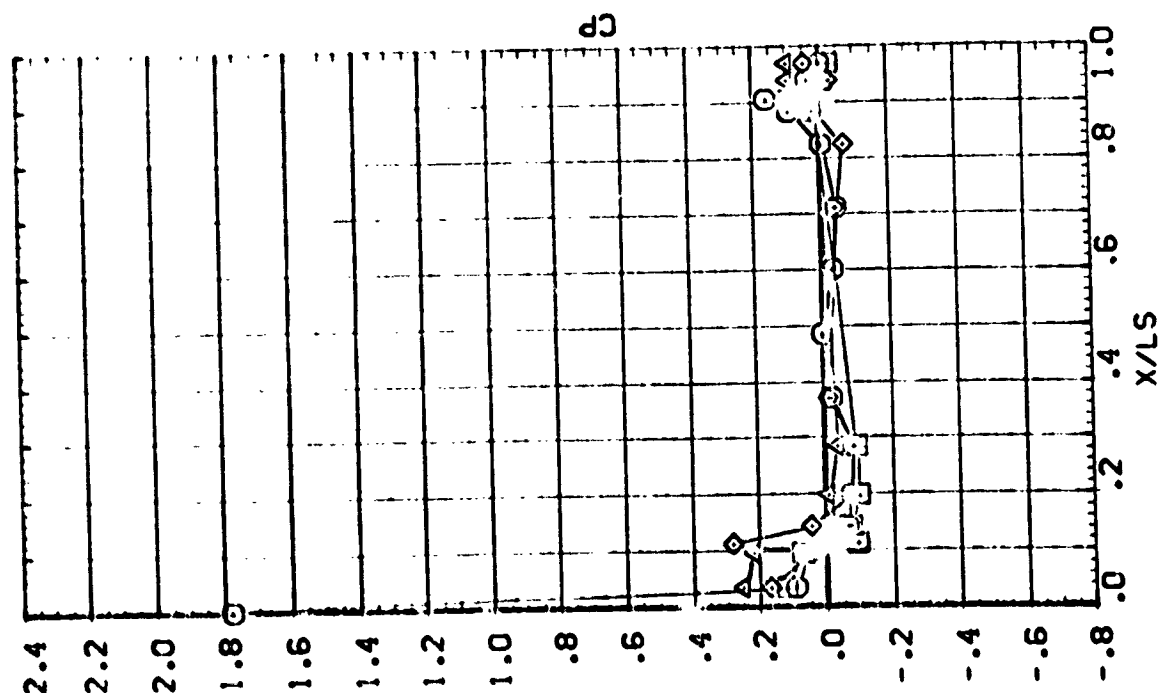
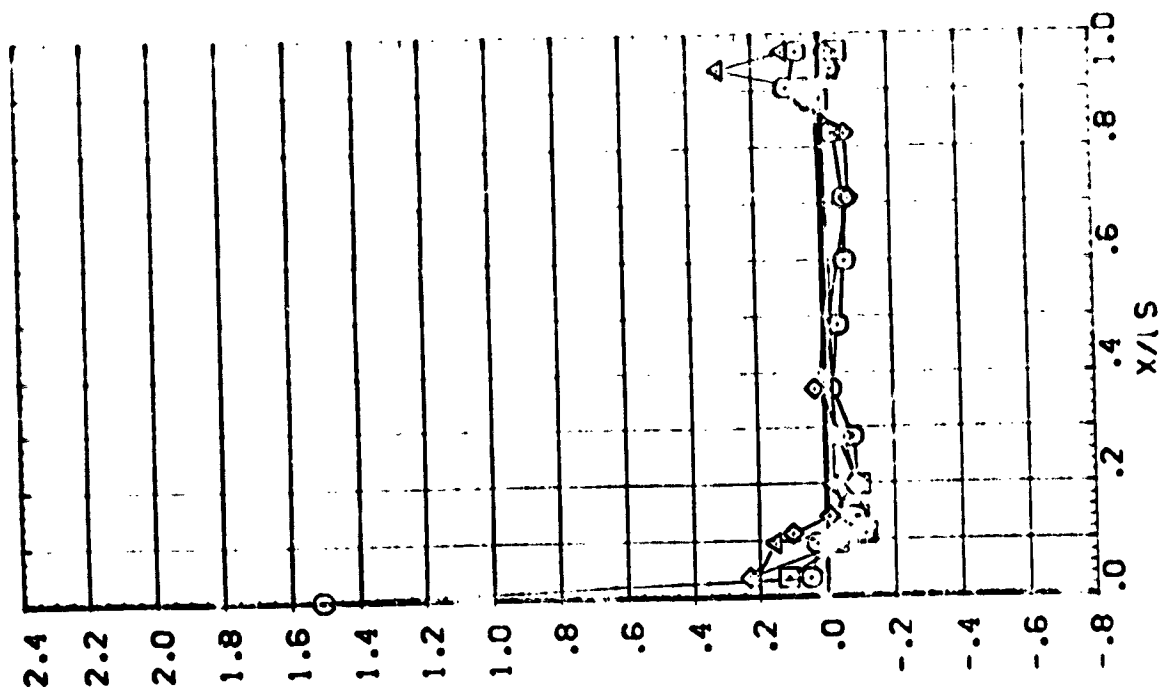
ALPHAT 4.000 999.00
RUDER .0000 ELEVEN
RUDFLR .0000



LONGITUDINAL DISTRIBUTION OF SRV BOOSTER PRESSURES

SRV 3205-3
 149 074 - 53 - 10
 SRV 3205-3

SRV 3205-3
 149 074 - 53 - 10
 SRV 3205-3



LONGITUDINAL DISTRIBUTION OF SRV BOOSTER PRESSURES

== 177

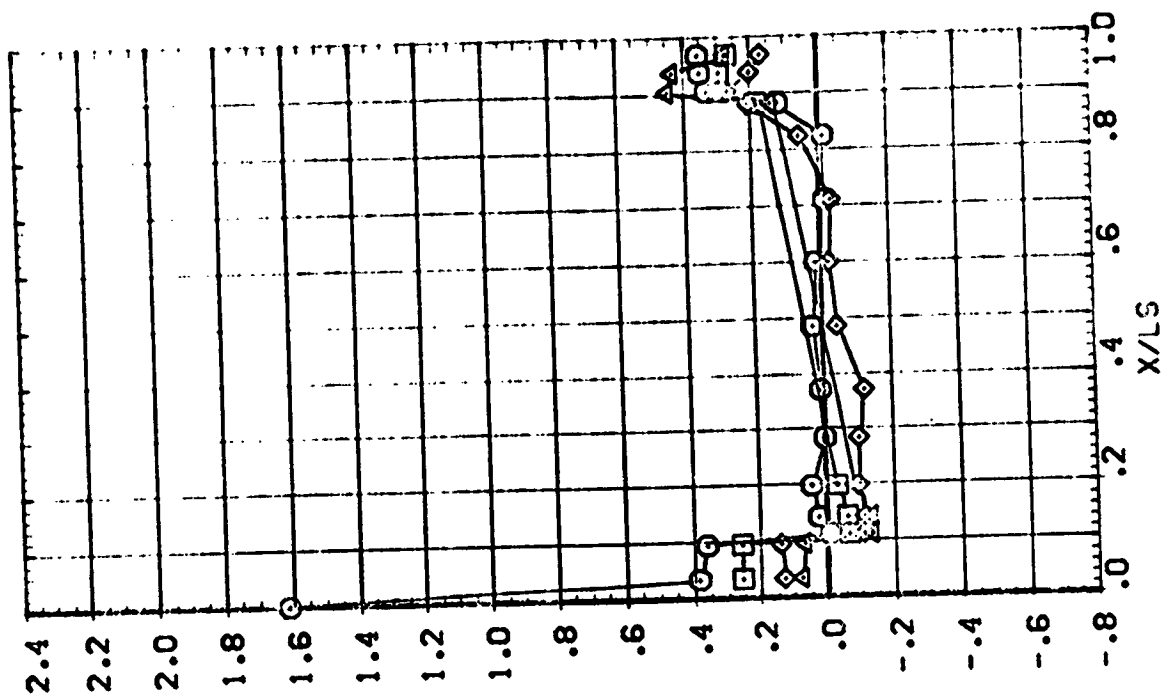
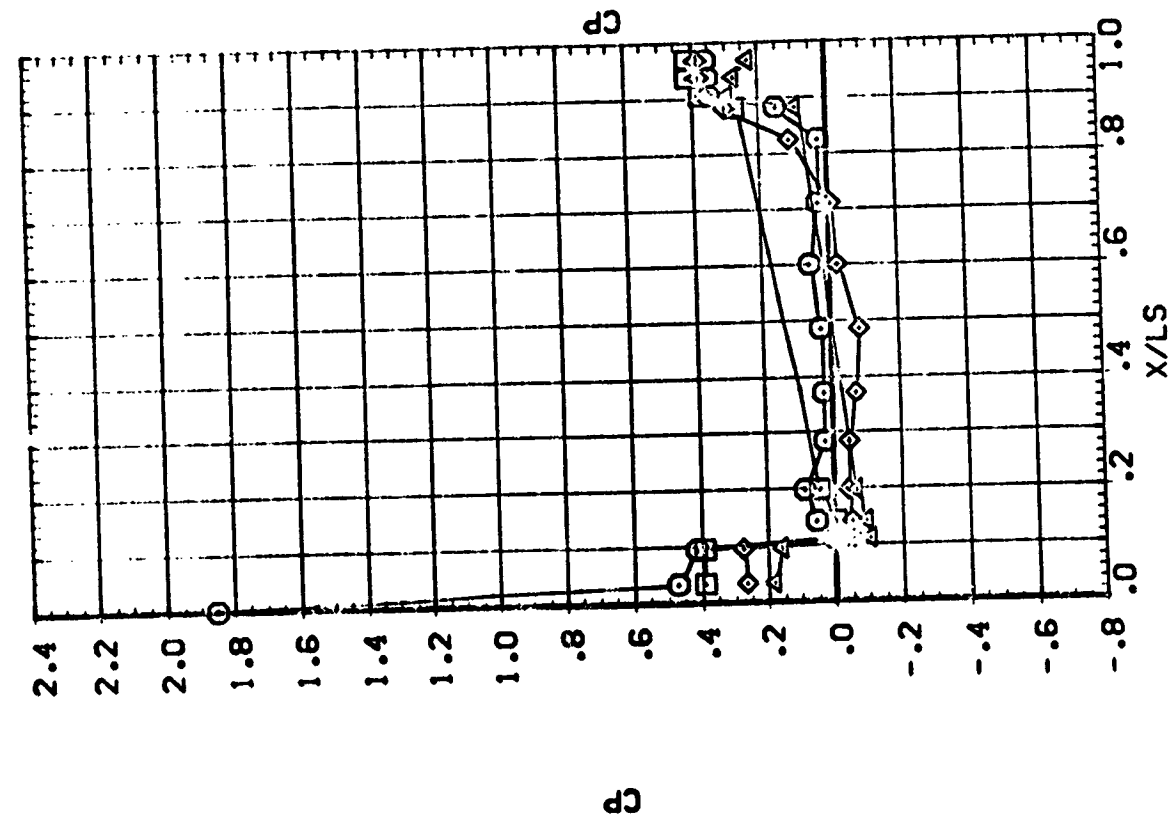
AVES 87-707 :A9 C2A - S3 - 79 SRM BOOSTER

(RBS:0)

SWGC
 0
 45,000
 90,000
 135,000

BEAT MACH
 -1.170 2.499
 2.180

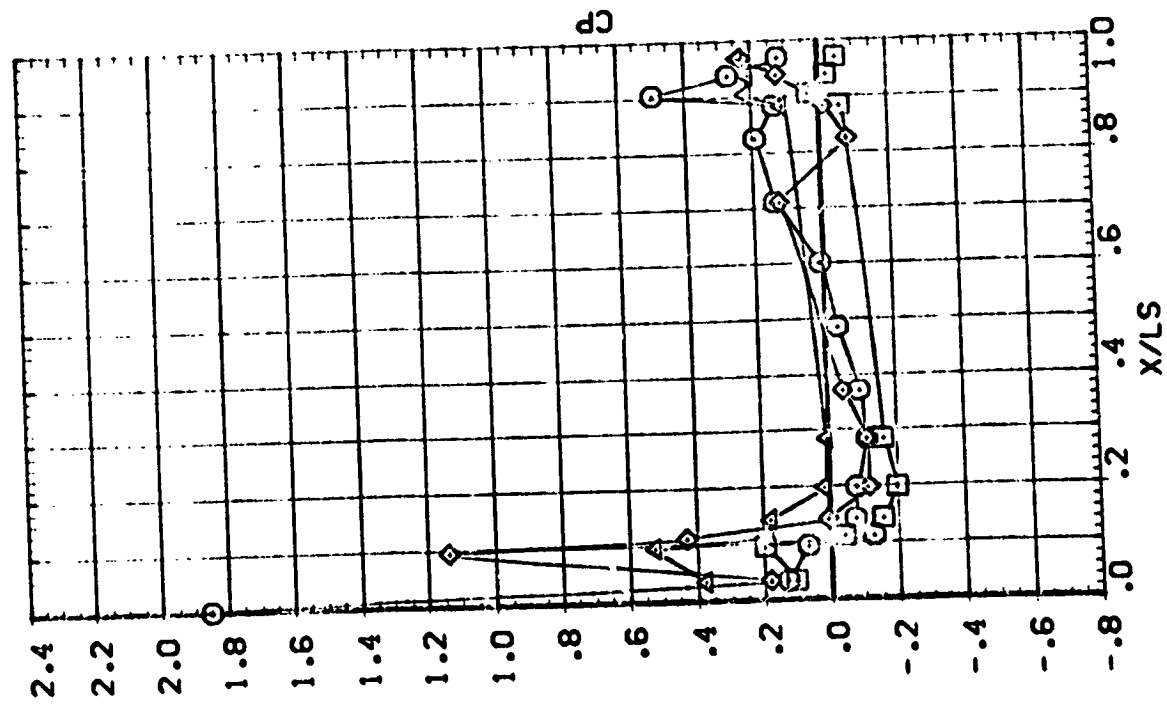
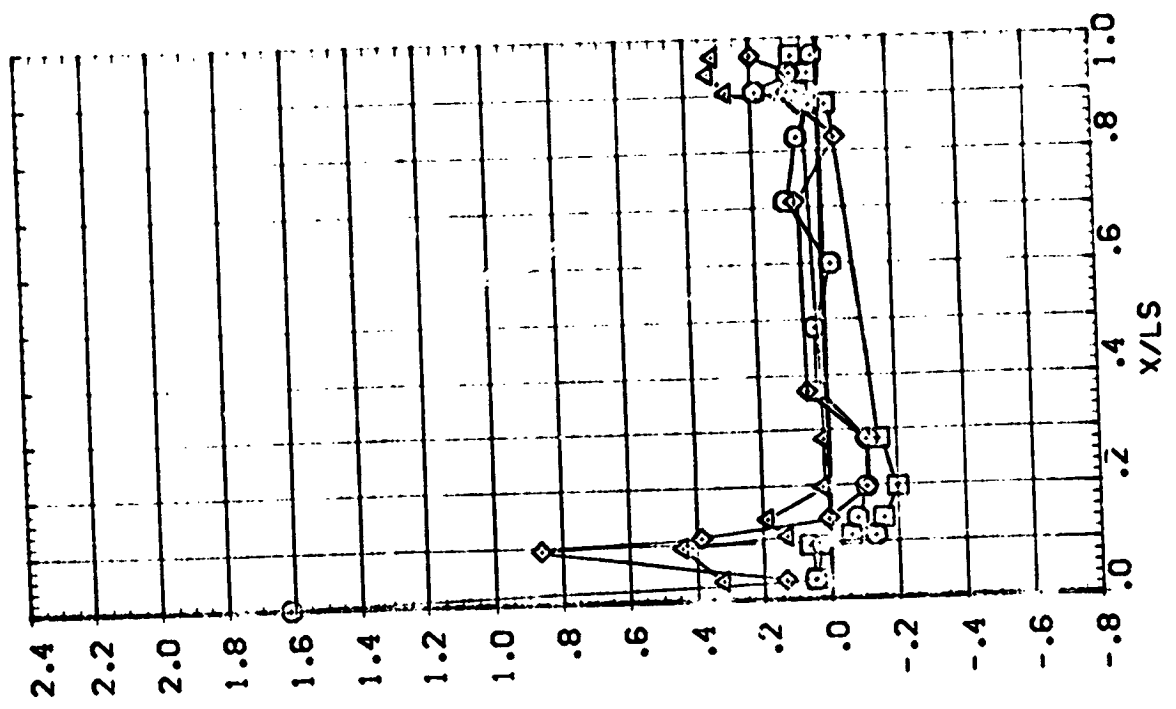
PARAMETRIC VALUES
 ALPHA 8.000 39.15
 R0000 0.000 0.000
 R0000 0.000 0.000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

ALMA: 8.000 99.00
 RUDER: 1.000 1.000
 RUDP: 1.000 1.000

S.W.C. 180.000
 BETAT -4.170 2.458
 WACH 2.458
 275.000
 270.000
 315.000



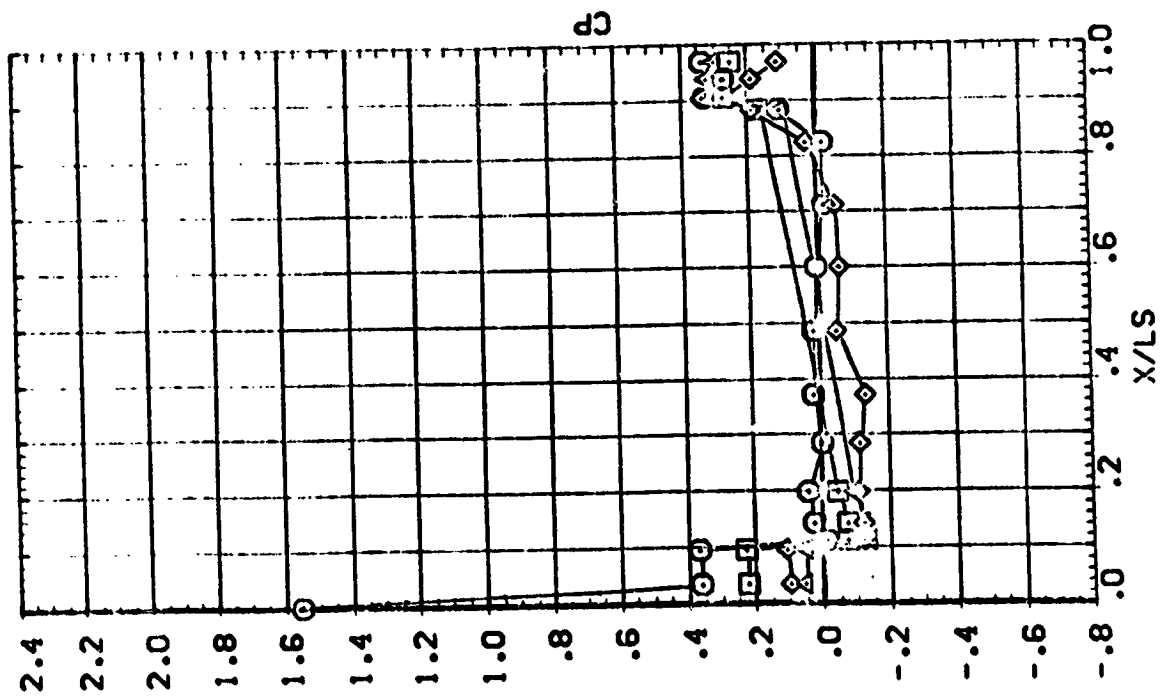
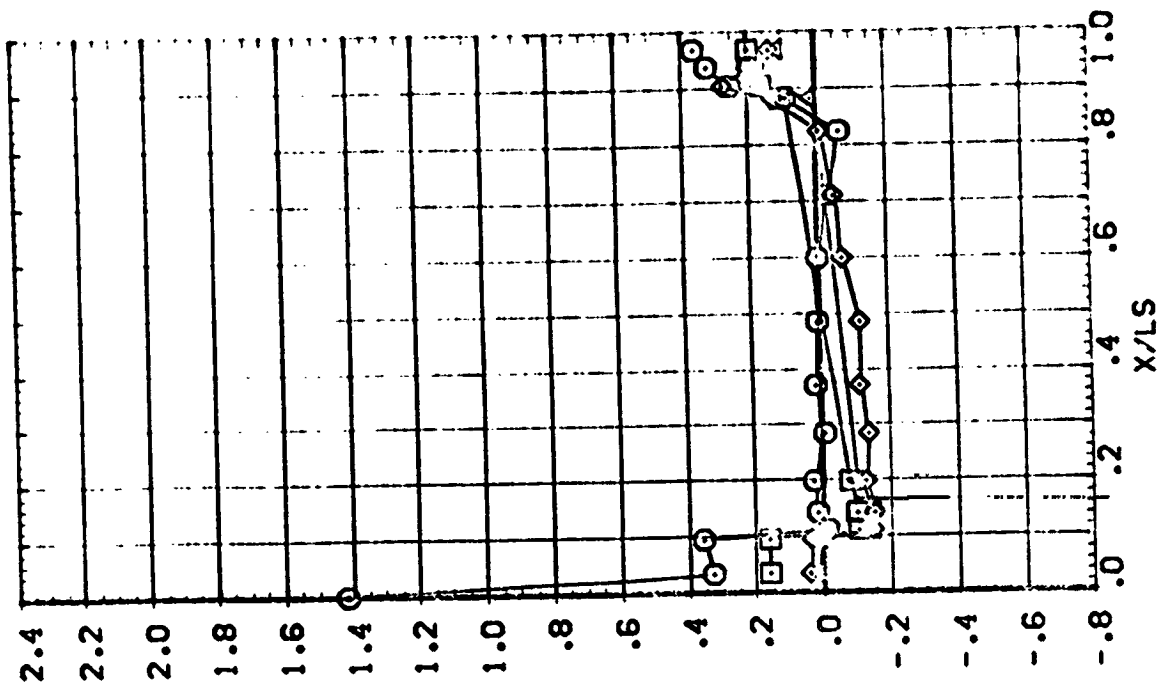
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

(RBS:0)

AVES 87-707 1A9 C2A - S3 - 9 SRV BOOSTER

ALPHA 8.000 99.12
RUDER .000 ELEV .000
RUDER .000

BEAT 4.370 2.498
MACH 8.580
SVC 1.000
45.000
90.000
135.000

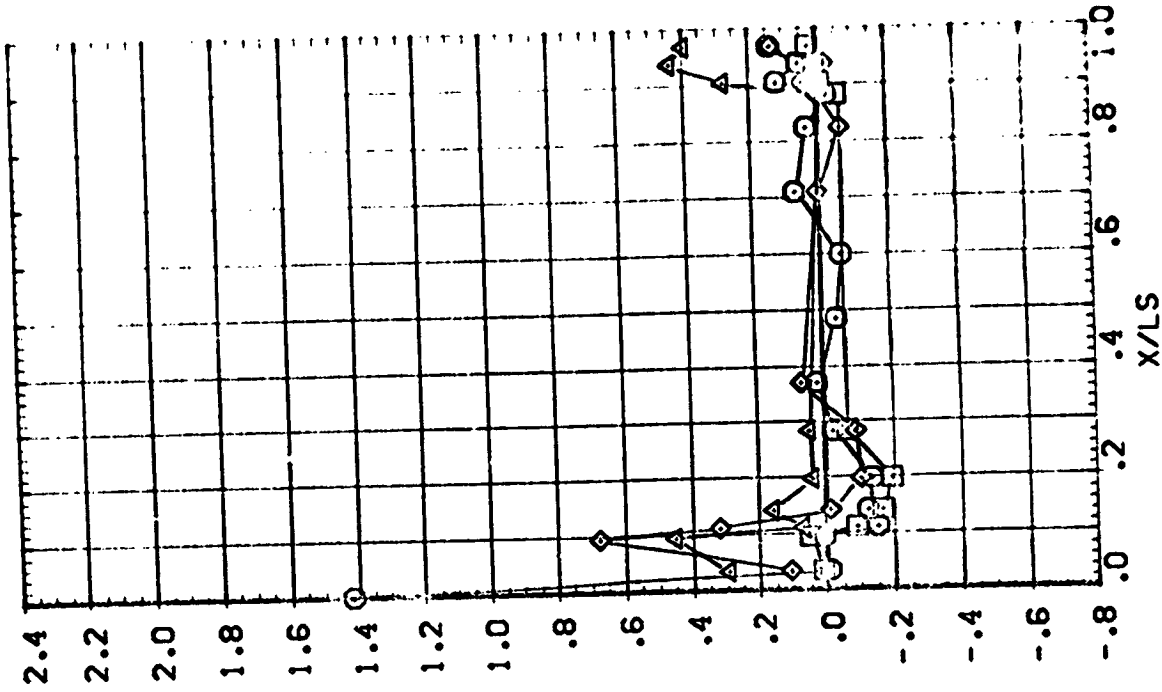
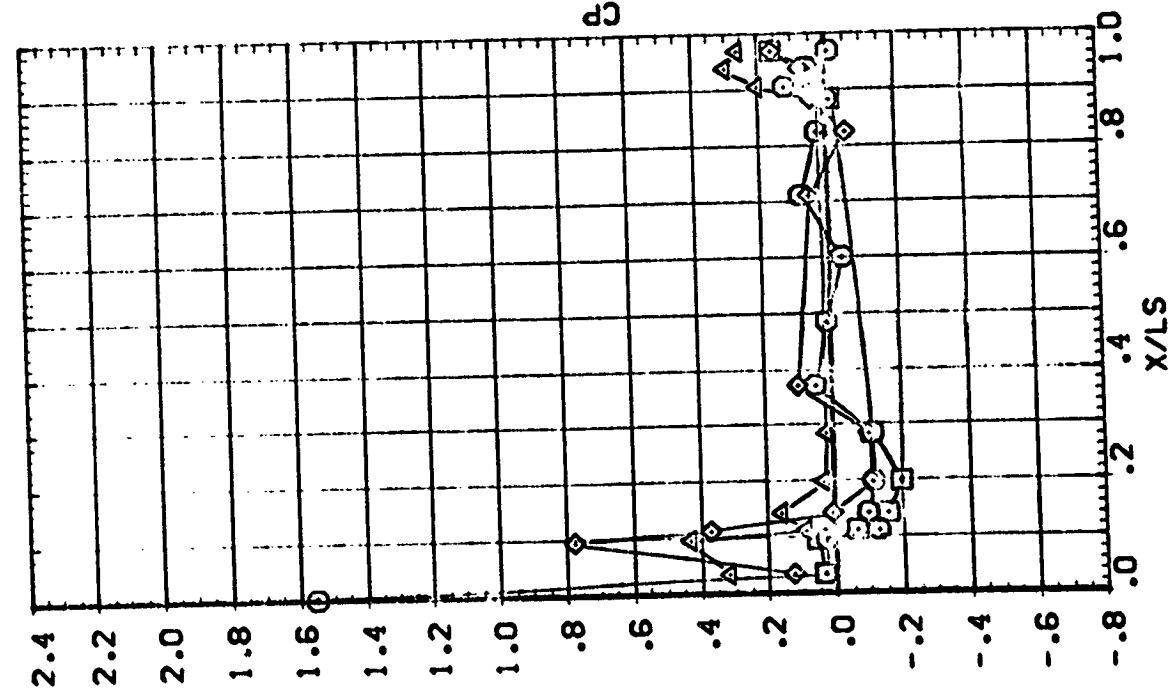


LONGITUDINAL DISTRIBUTION OF SRV BOOSTER PRESSURES

SYNCH
 180.000
 225.000
 275.000
 315.000

BE"A" WAC-
 4.320 2.498
 8.580

PARAMETRIC VALUES
 ALDMMAT 8.000 0.000 0.000
 RUDDER 0.000 0.000 0.000
 RUDDLR 0.000 0.000 0.000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

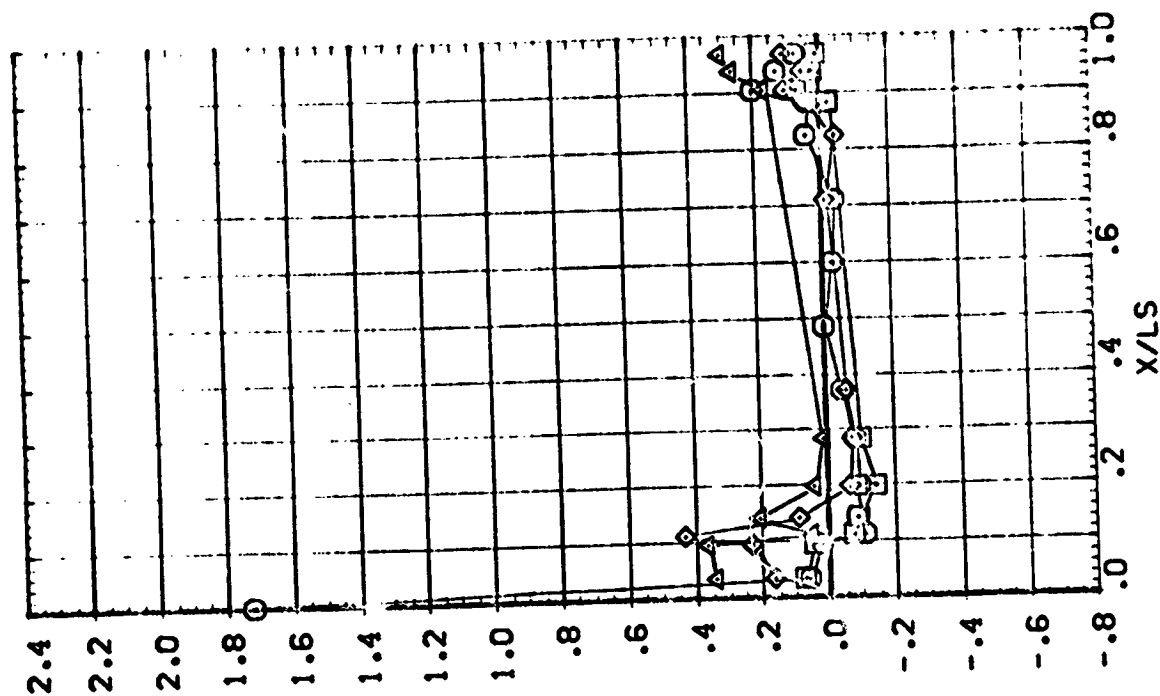
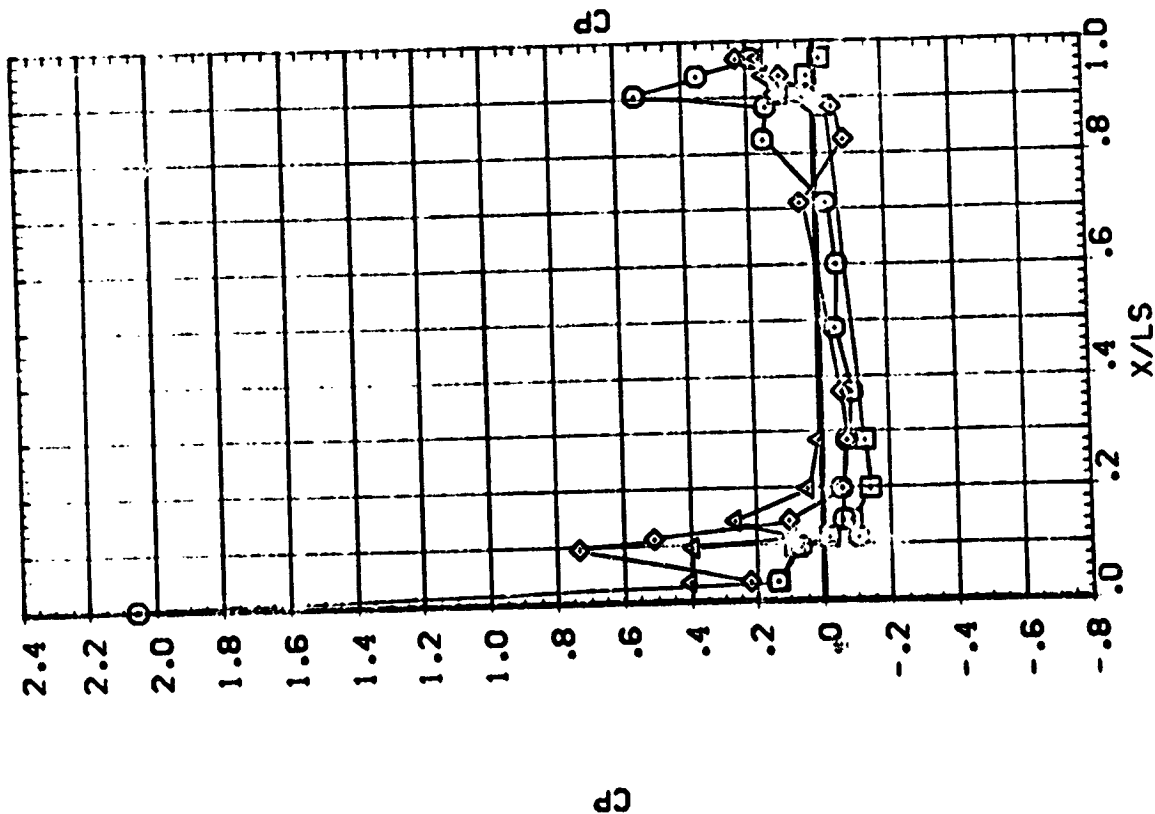
AVES (11-100) 10 02A 1 93 1 10 JAN 1000 H.

S-REF
()
◇
△

SL: 180.000
225.000
270.000
315.000

BEAT 4.240
2.230

MAC 2.999



PARAMETRIC VALUES
ALPHA 0.000
BETA 0.000
GAMMA 0.000
DELTA 0.000
ELEV 0.000

LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

PAGE 7/33

SYSC
 ()
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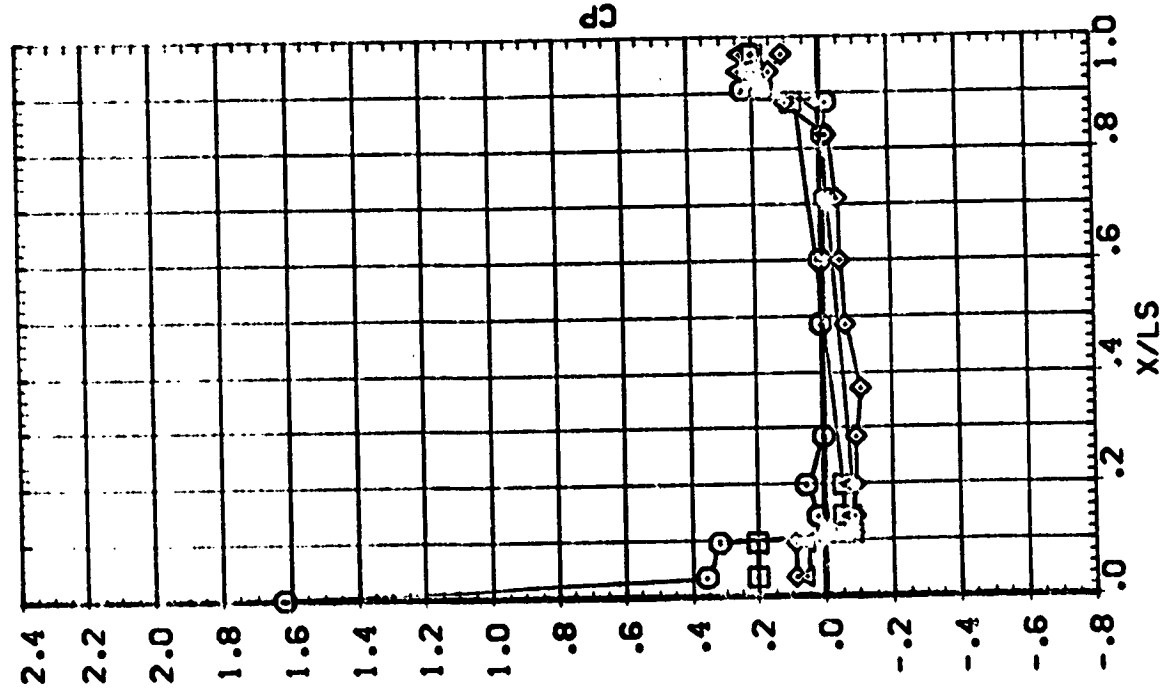
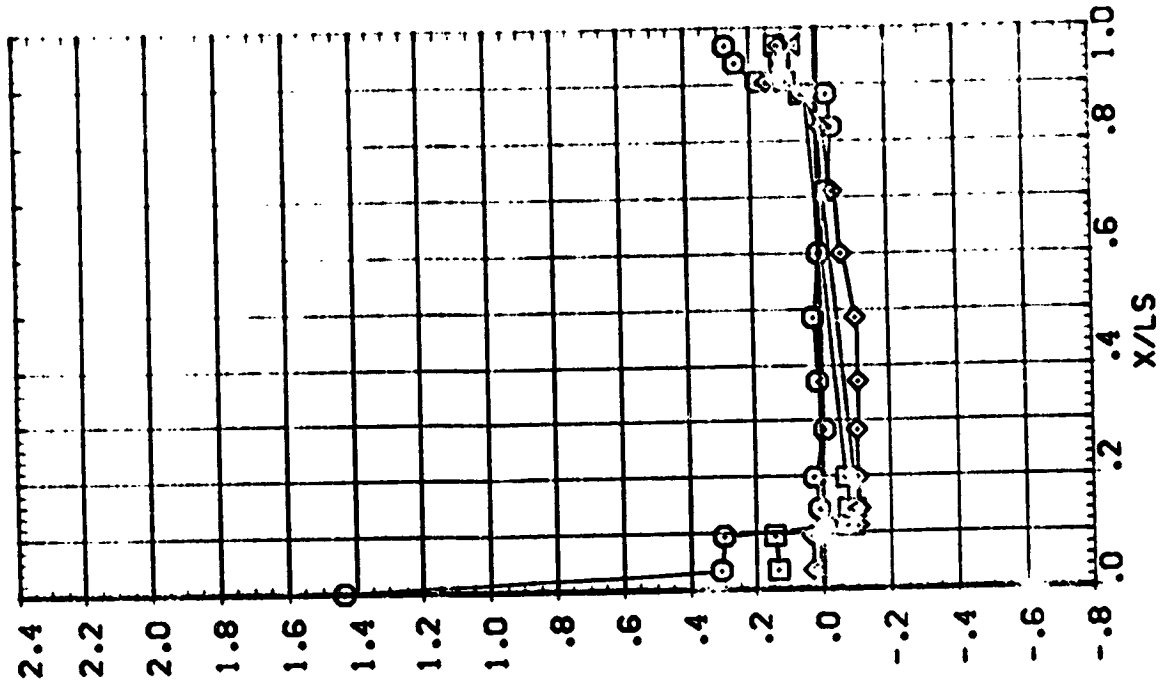
ALPHA
 0.000
 45.000
 90.000
 135.000

BETA
 4.400
 8.740

WACH
 7.999

PARAMETER VALUES
 ALPHA
 0.000
 45.000
 90.000
 135.000

500
 1000



LONGITUDINAL DISTRIBUTION OF SRV BOOSTER PRESSURES

1015 87200 000 000 000 000

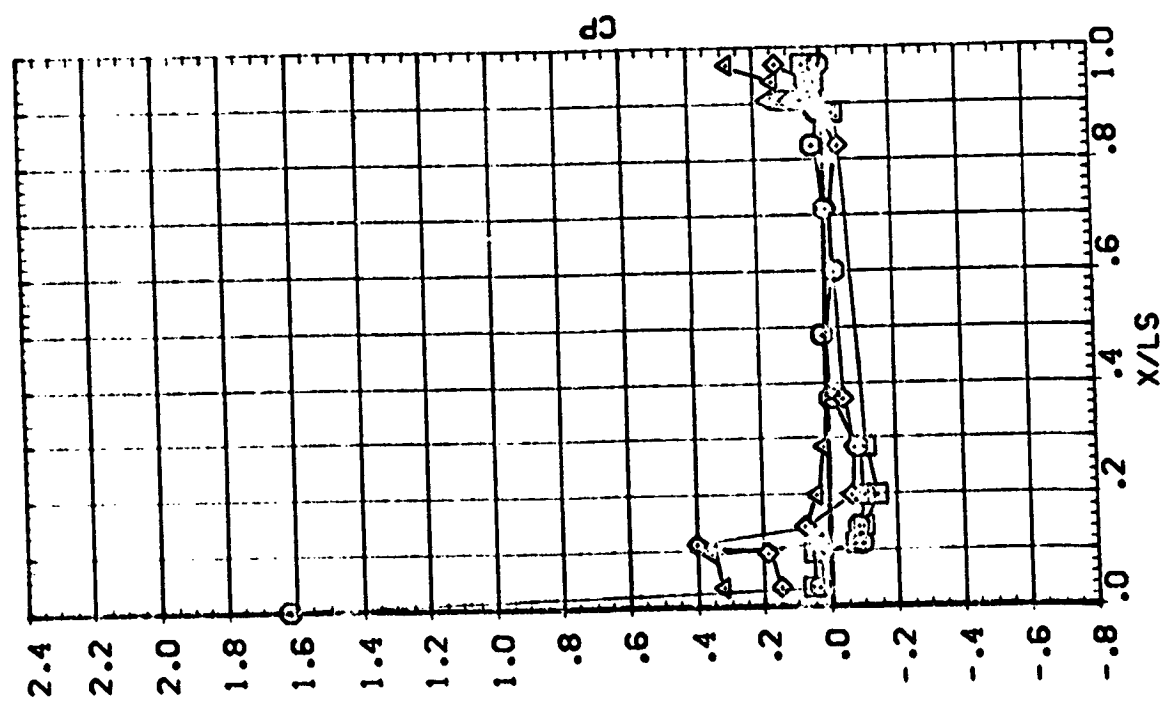
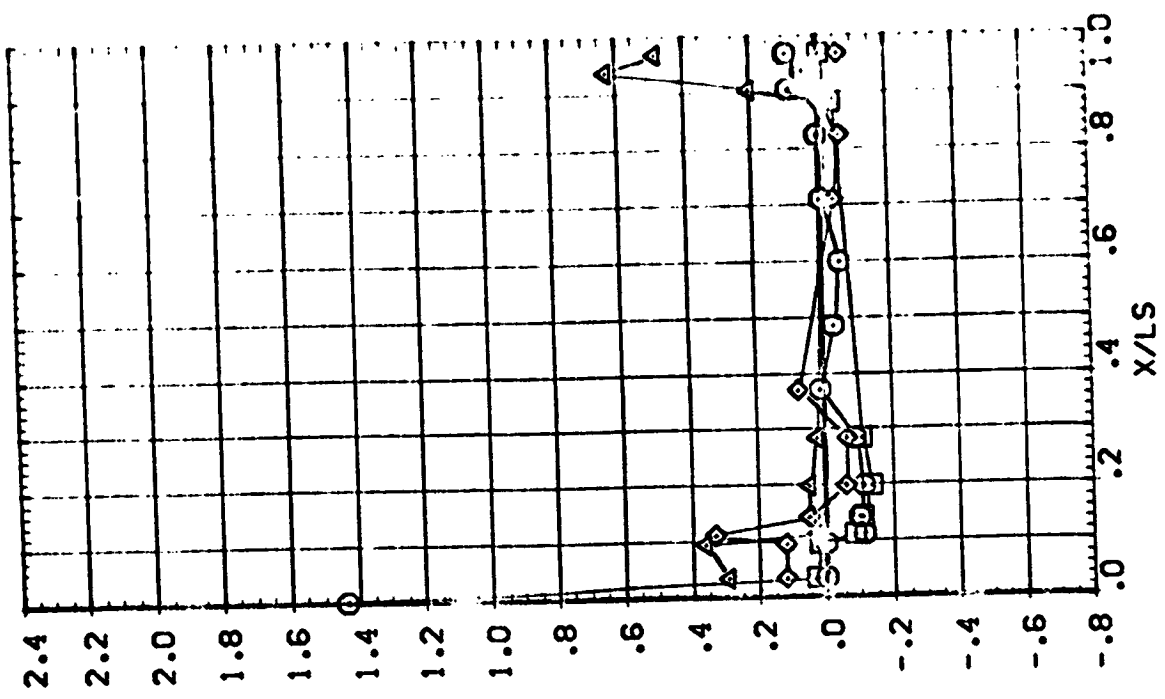
SWBC
180.000
225.000
270.000
315.000

BEAT
4.400
8.740

WAC
2.999

PARAMETRIC VALUES
ALPHAT 8.000
RUDDER .000
RUDLER .000

500
500



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

III

AVES 87-707 :A9 C2A + S3 + 19 SRM BOOSTER

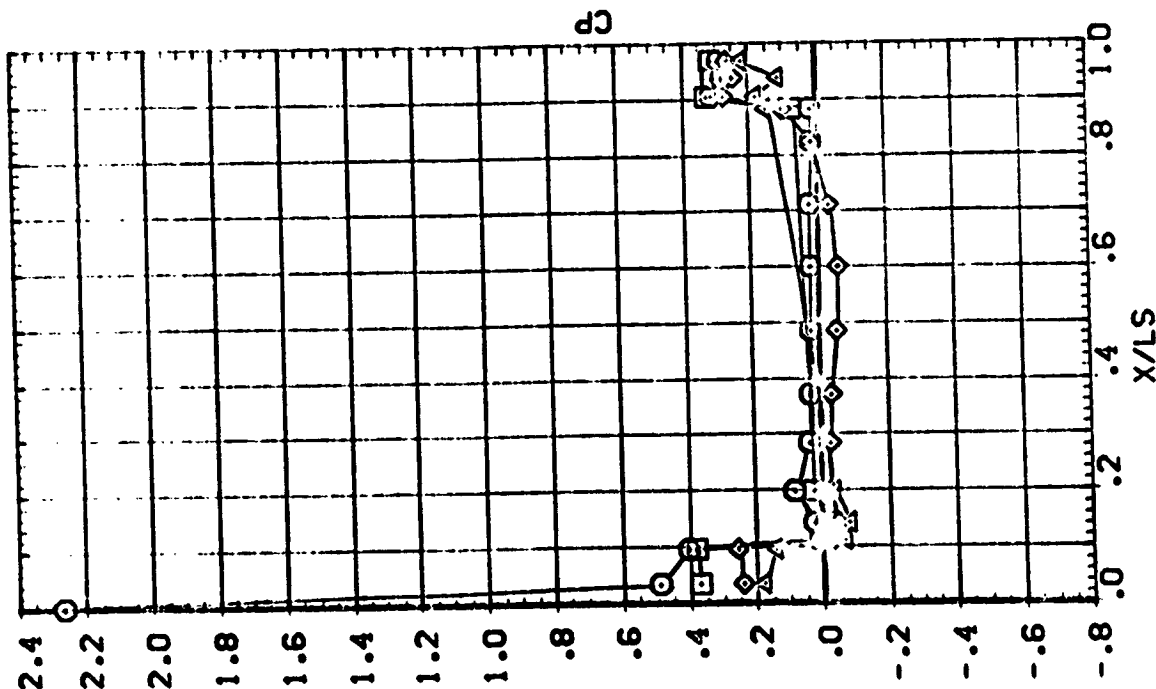
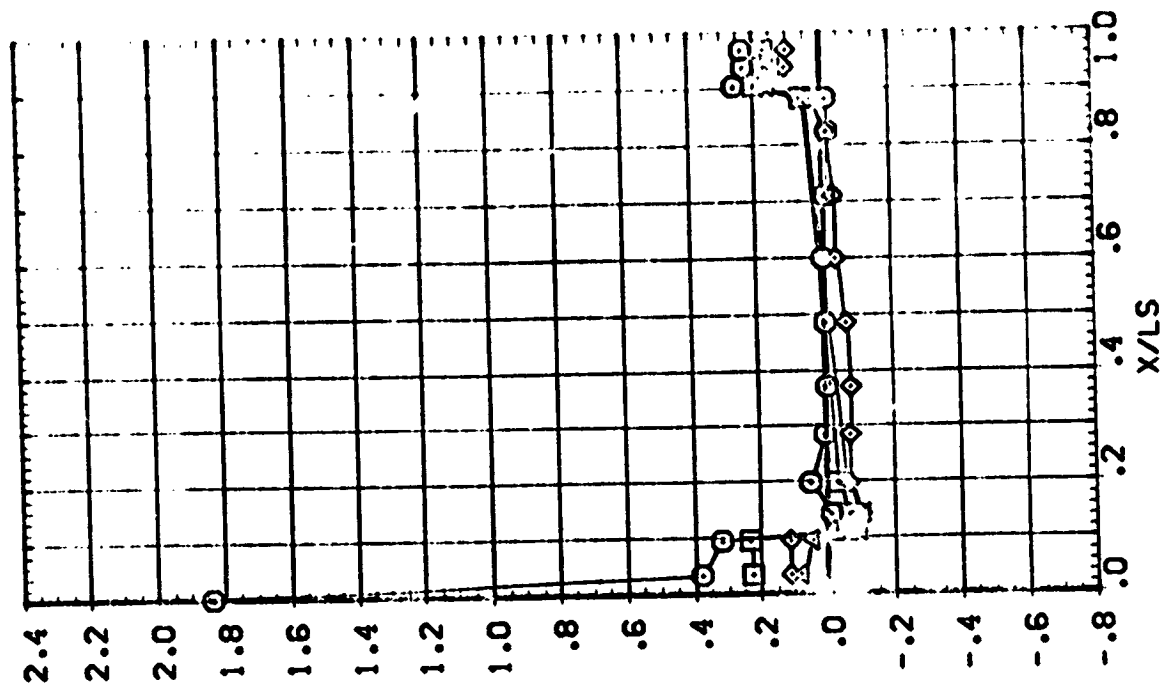
(RBNS:0)

SYNCC
 0
 45.000
 90.000
 135.000

BEAT VAC
 4.310 3.502
 2.750

PARAMETRIC VALUES
 ALPHAT 0.000
 RUDDER .000
 RUDDLR .000

.000
 .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

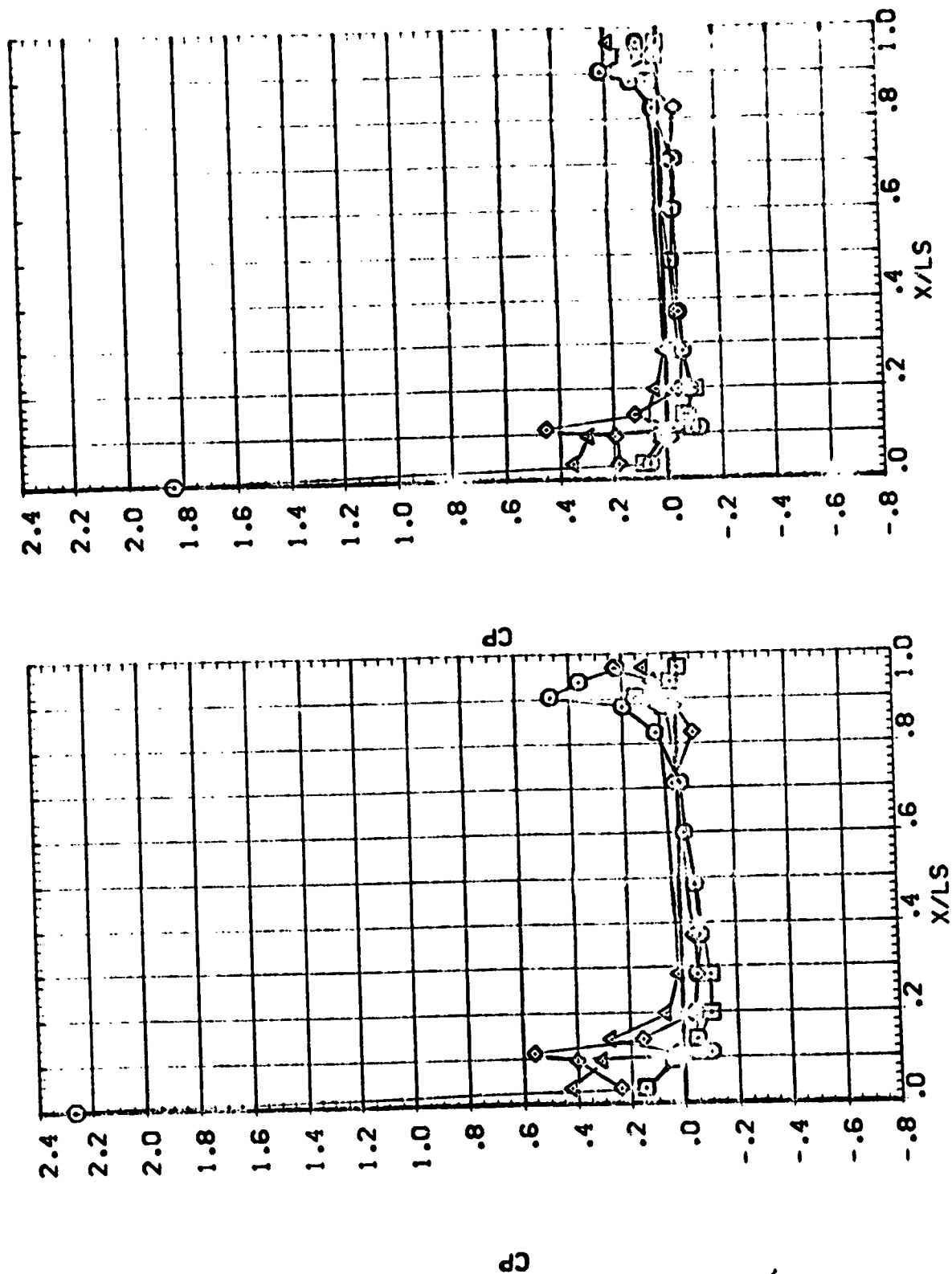
AVES 87-707 :A9 22A - S3 - '9 SRM BOOSTER

(RBS:0)

5.000
180.000
275.000
775.000
315.000

BETA* 4.310
MACH 3.502
7.760

PARAMETRIC VALUES
ALPHA* 8.000
RNOSE 0.000
RNOSE 0.000
RNOSE 0.000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AVES 87-707 :A9 02A + S3 + 19 SRM BOOSTER

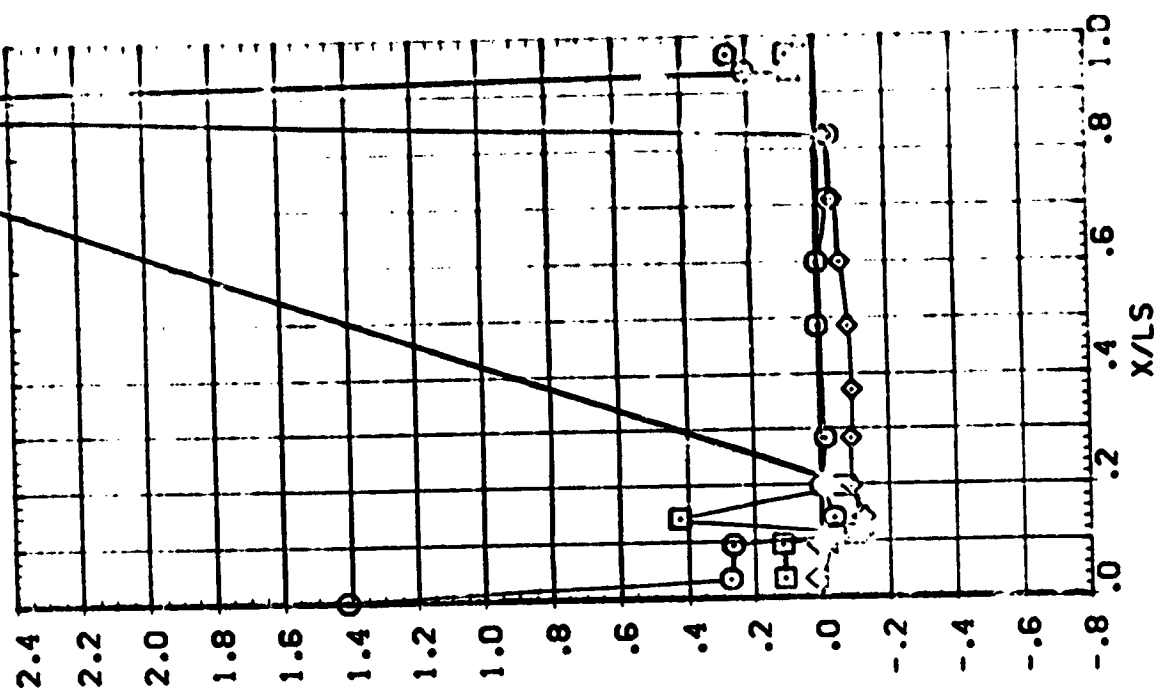
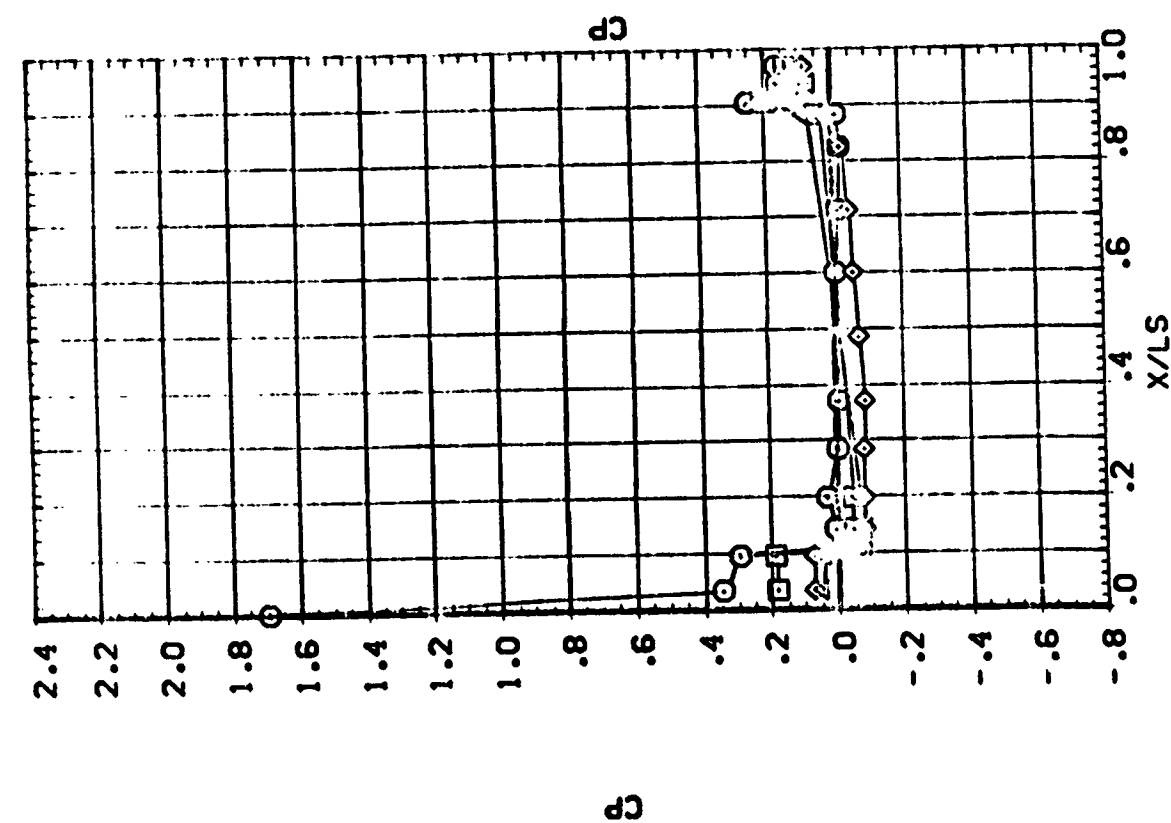
(RENS:0)

SYNCH
()
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△

BETA°
4.480
8.900

WACH
3.502

PARAMETER VALUES
ALPHA1
8.000
RUDER
0.000
RUDER
0.000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

(REVISION)

AVES 87-707 :A9 C2A - S3 - 19 SRV BOOSTER

SYNCH

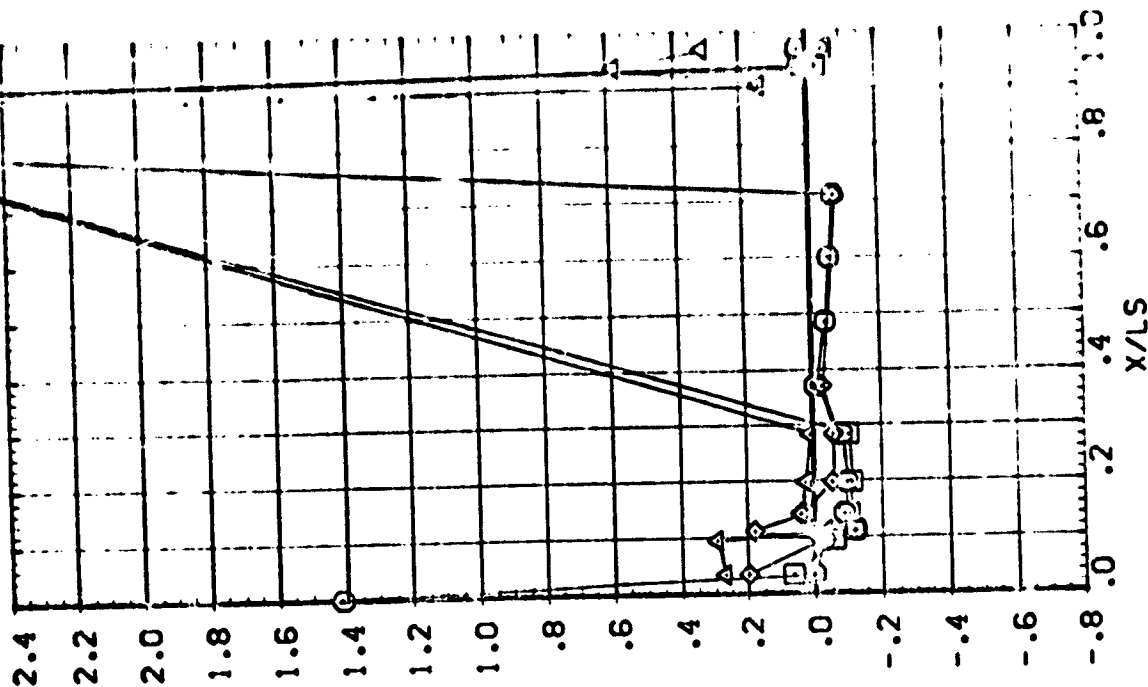
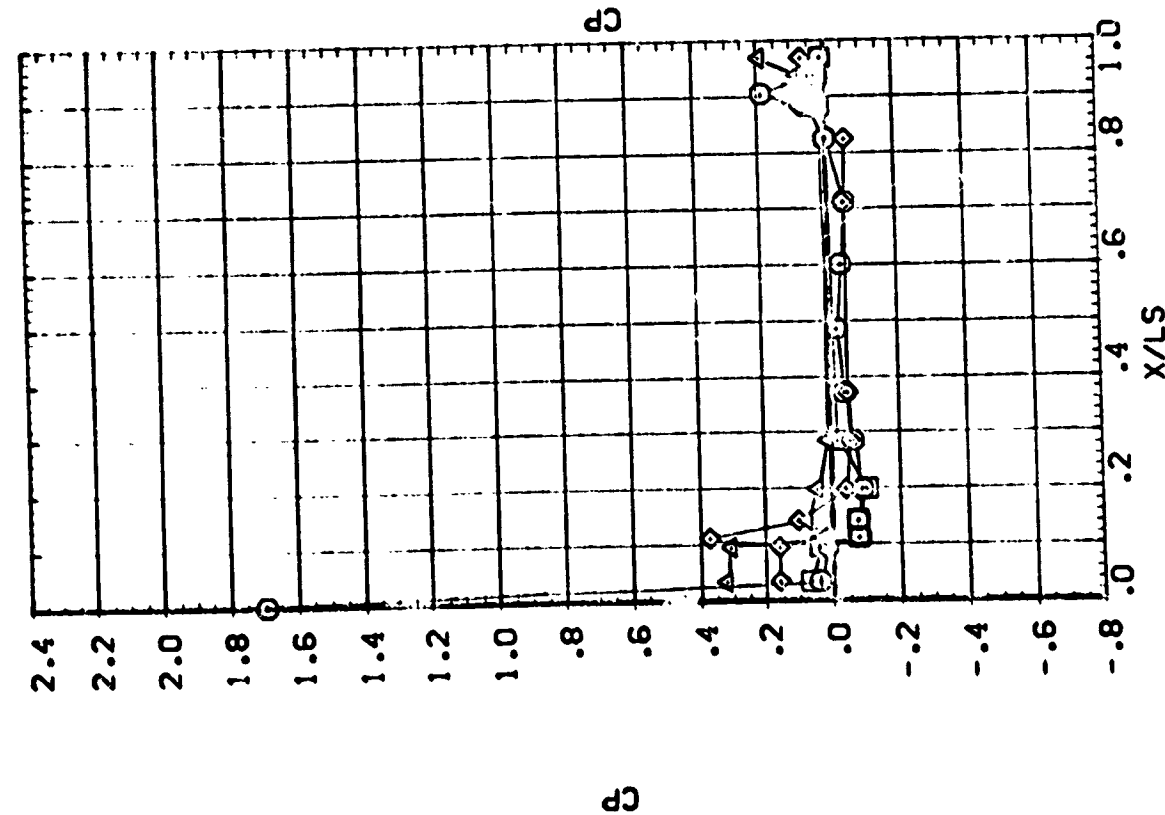
21: 190.000
275.000
275.000
315.000

35.1" 4.48C 8.900

WASH 3.502

ALPHA
R200P
R200P

0.000 0.000 0.000 0.000 0.000 0.000



LONGITUDINAL DISTRIBUTION OF SRV BOOSTER PRESSURES

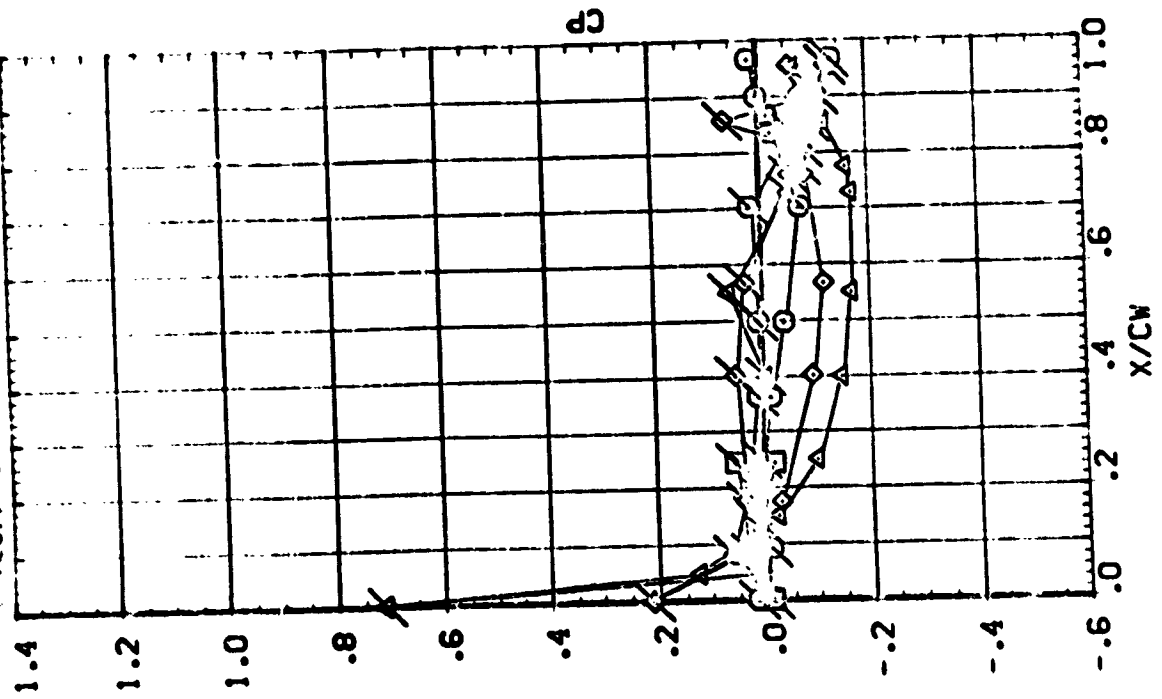
PARAMETRIC VALUES

BETA	0.000	0.000	0.000
REAR	0.000	0.000	0.000
207.2	0.000	0.000	0.000

SYNOPSIS

VIB	4.030	2.098
350	0.000	0.000
350	0.000	0.000
350	0.000	0.000

DATA SET: SYMPC. CONFIGURATION DESCRIPTION
 CASE 87-107 (AG 87A - S3) - 9 UPPER WING
 CASE 87-107 (AG 87A - S3) - 9 LOWER WING

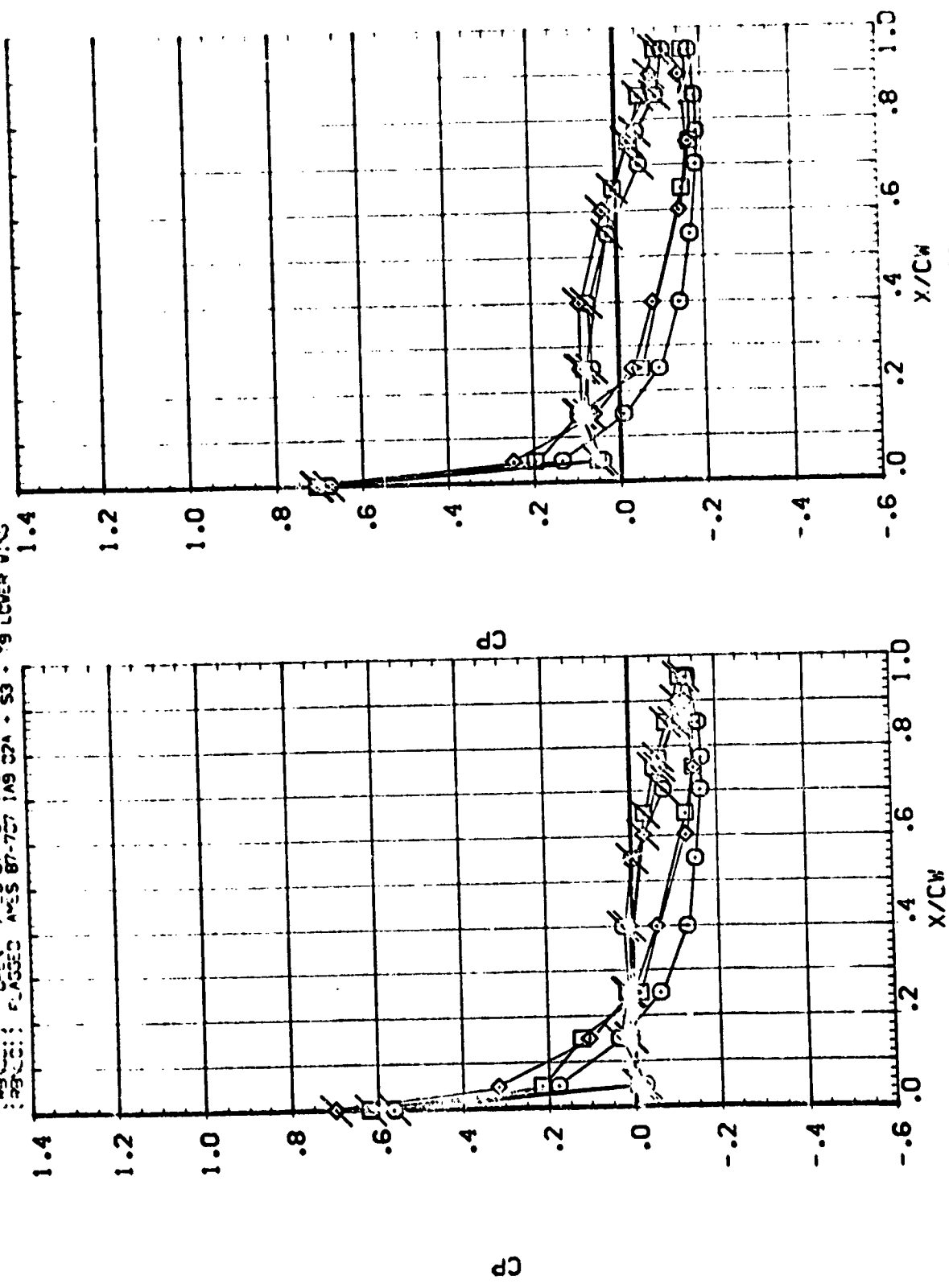


CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

DATA SET: 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

SYMBOL: 1/30
 .673
 .78C
 .88C

DATA SET: 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETRIC VALUES

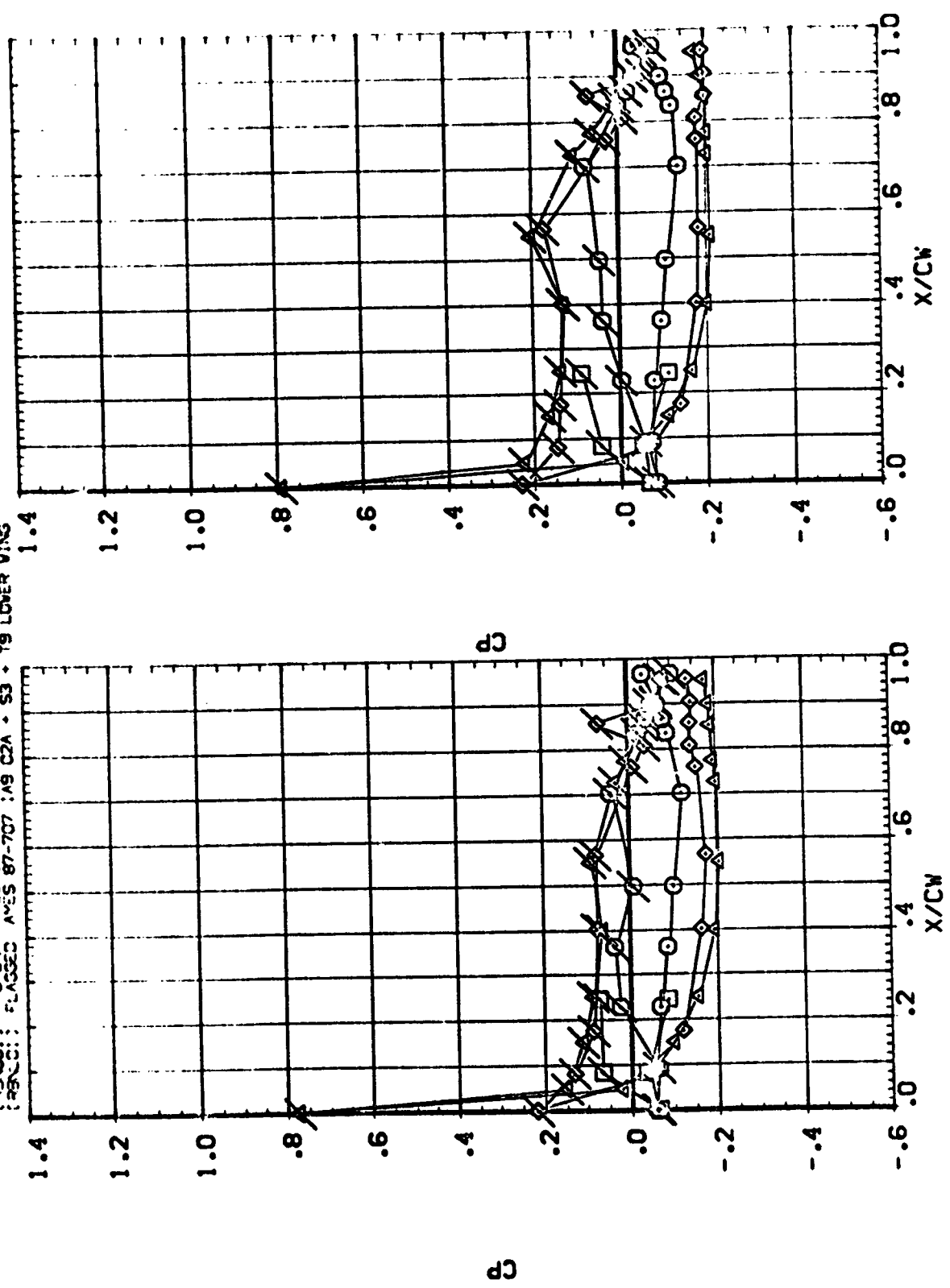
BETAT	.000	99.1°
RUDER	.000	ELEV
RUDLR	.000	

SYMBOL

Y/BV	ALPHA	MACH
.299	3.900	2.498
.364	8.010	
.427		
.534		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

18N001	OPEN	WES 87-707	1A9	C2A	S3	T9	UPPER WING
18N002	FLAPPED	WES 87-707	1A9	C2A	S3	T9	LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETRIC VALUES
 .000 .000 .000 .000
 .000 .000 .000 .000
 .000 .000 .000 .000

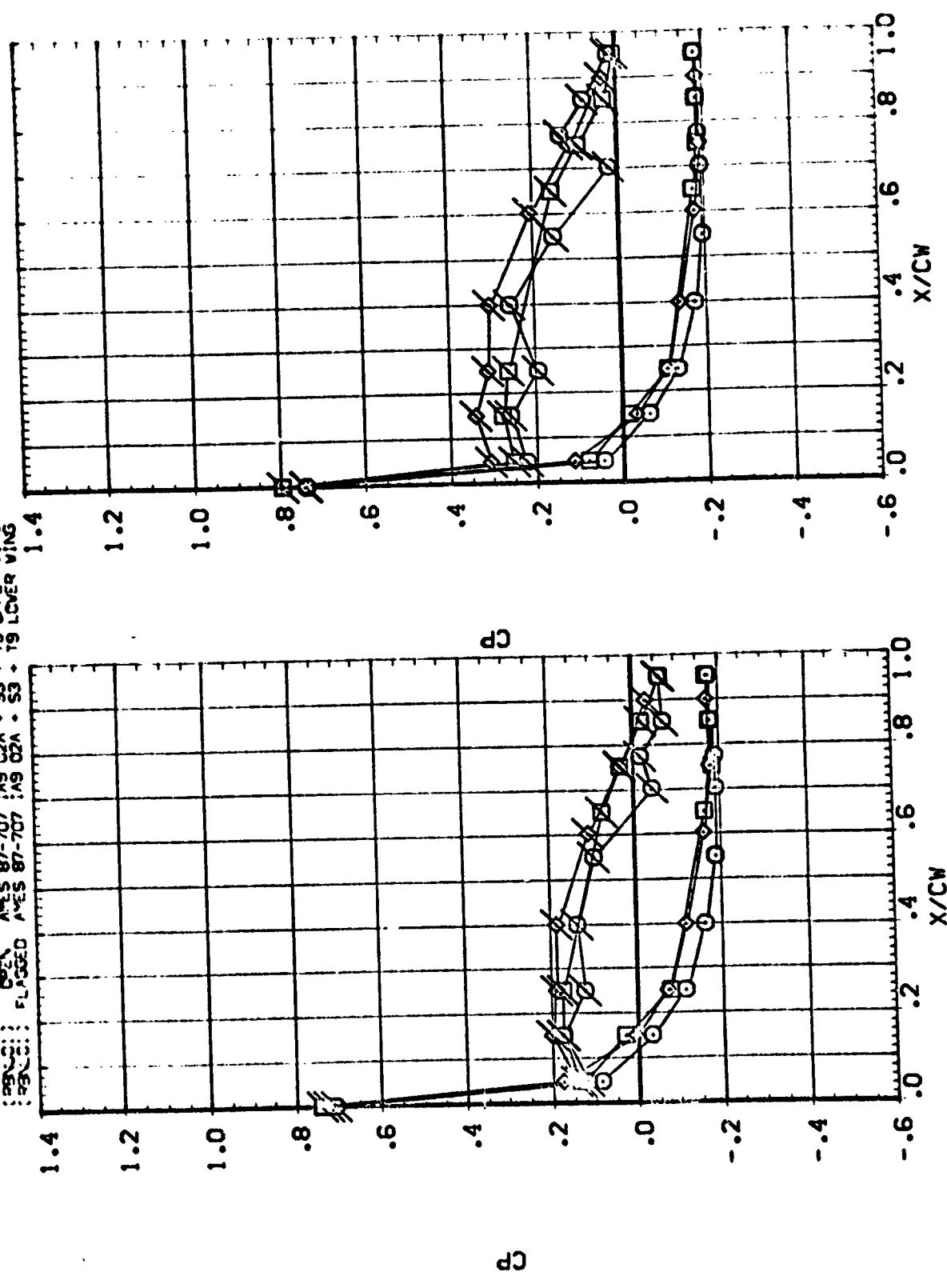
BETAT
 RJOER
 RJOFLR

SYMBOL
 .673
 .78C
 .887

ALPHAT
 3.850
 8.010

MACH
 2.498

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 87-707 1A9 02A + S3 + T9 UPPER WING
 87-707 1A9 02A + S3 + T9 LOWER WING



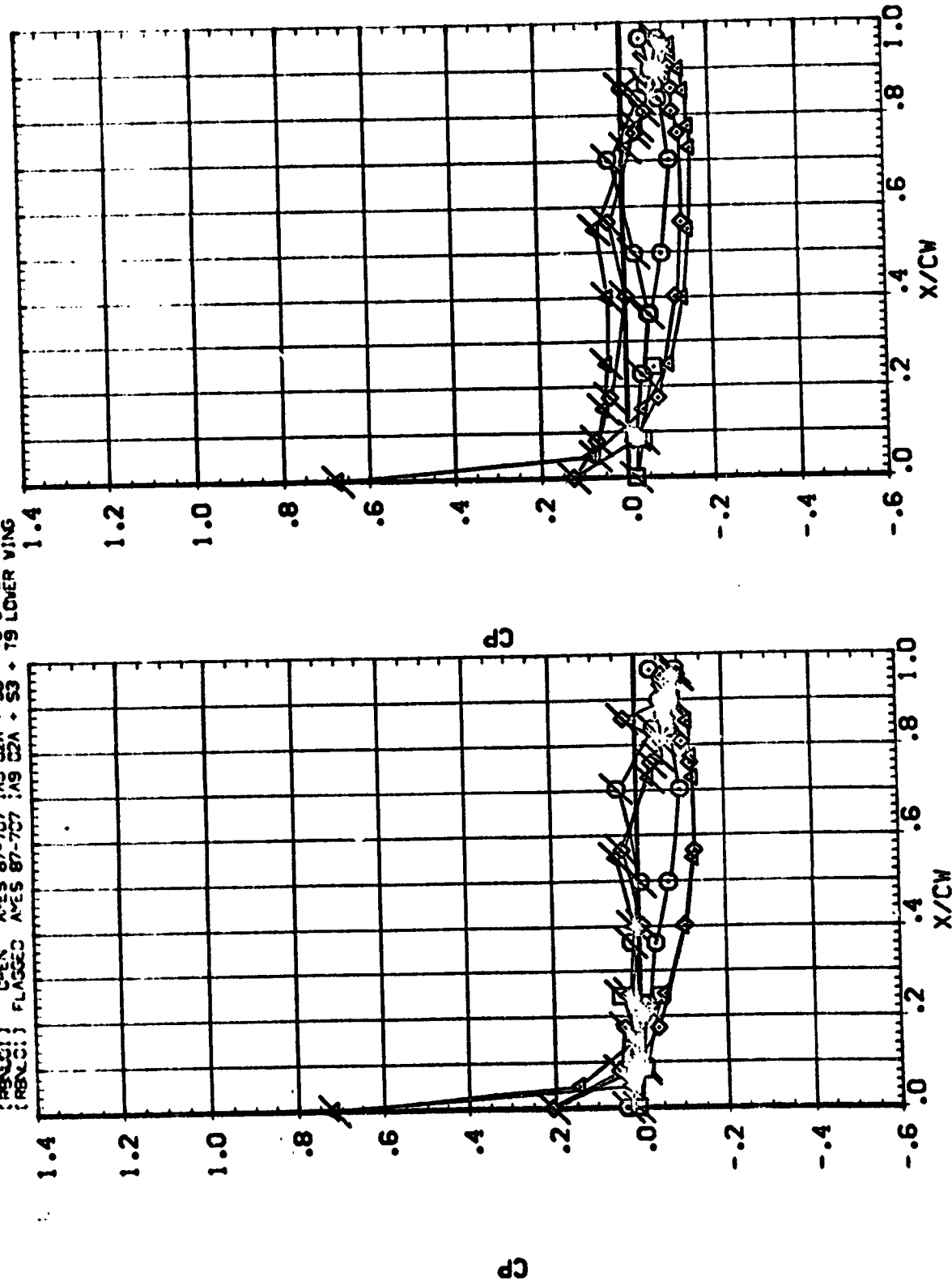
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL Y/BV .759
 .364
 .427
 .534

ALPHAT MACH
 -4.070 2.999
 -.010

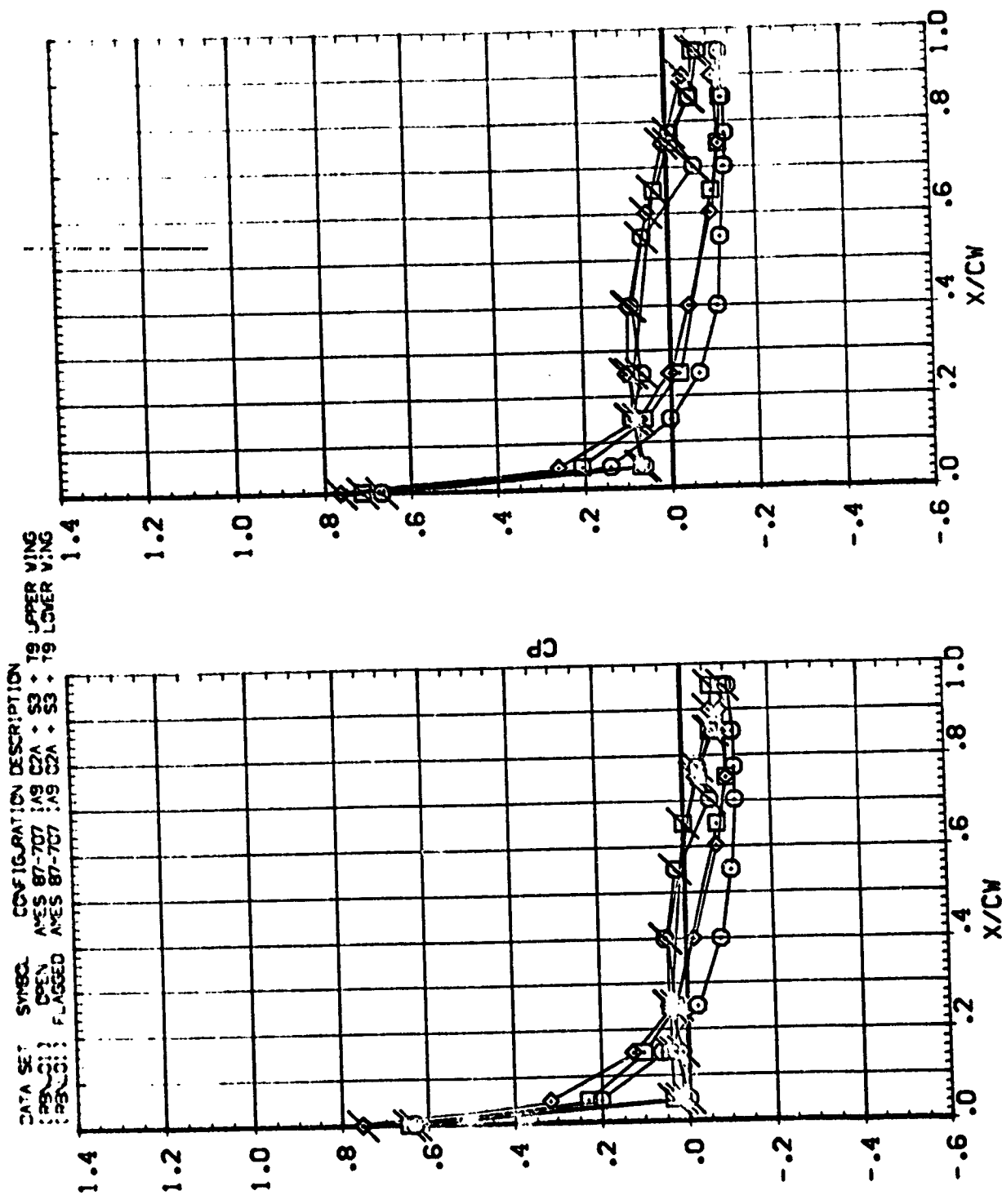
PARAMETRIC VALUES
 BETA: .000
 RUDDER .000
 P-OF-LR .000
 .500
 .000
 ELEVON .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBLN) OPEN AVES 87-707 1A9 C2A + S3 + T9 UPPER WING
 (RBLN) FLAGGED AVES 87-707 1A9 C2A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

2.999	-4.678	288.
	-3.33	381
		679



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

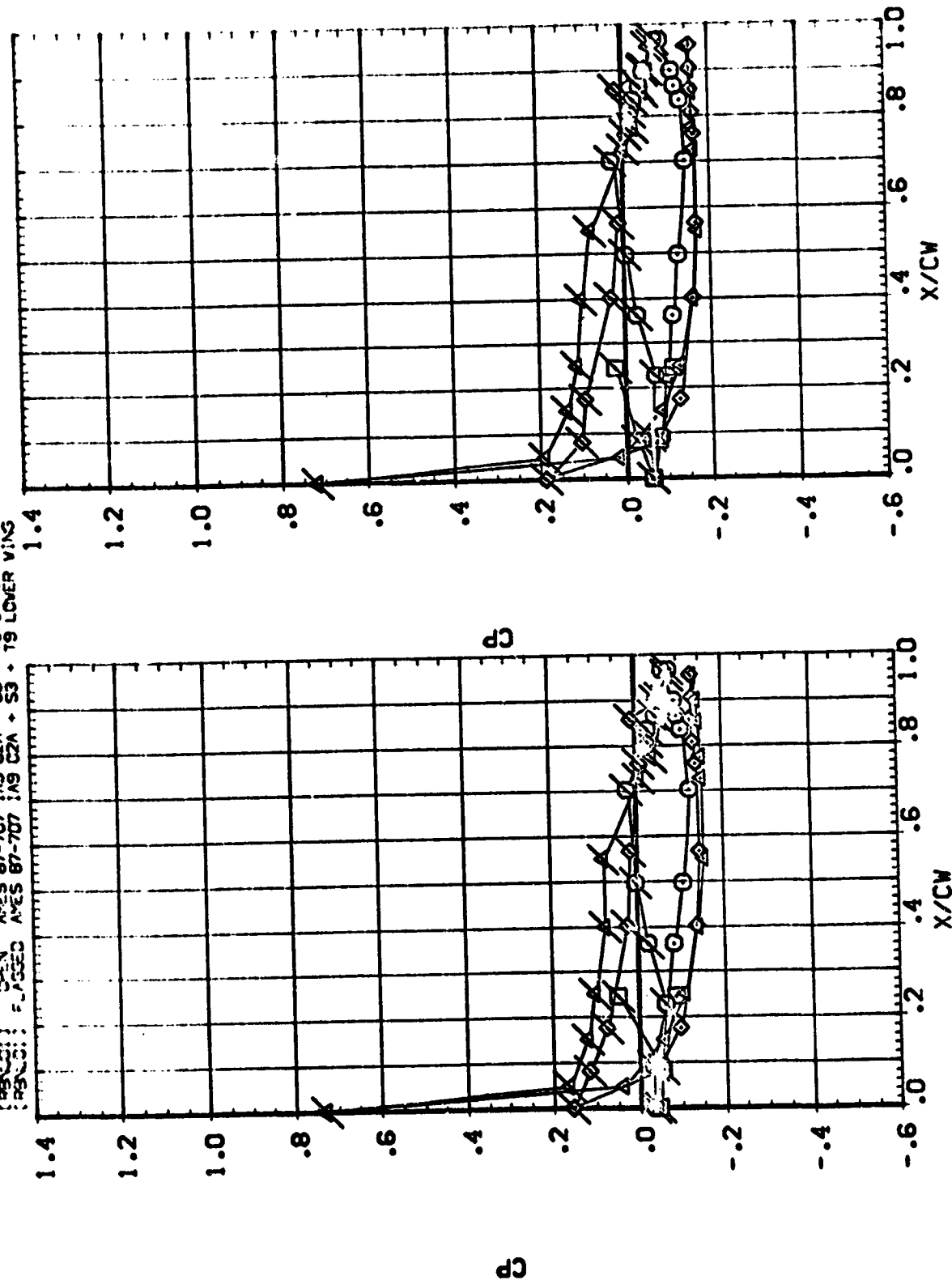
III

SYMBOL V/BV
 O .299
 I .364
 Δ .427
 .534

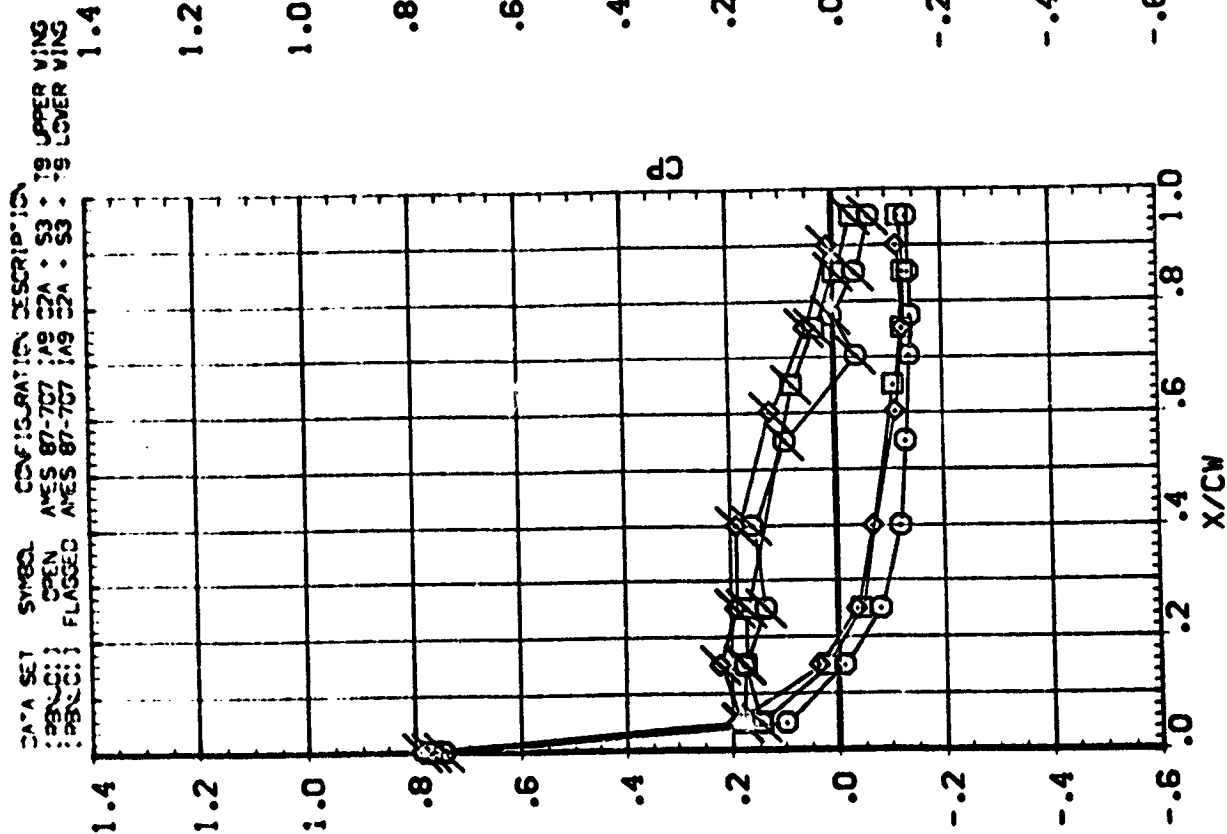
ALPHAT WACH
 3.96C 2.999
 8.100

PARAMETRIC VALUES
 BETAT .000 999.0C
 RUDDER .000
 RUDDLR .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (REMOVED) OPEN AXES 87-707 1A9 C2A + S3 + T9 UPPER WING
 (REMOVED) FLAPPED AXES 87-707 1A9 C2A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

III

SYMBOL
 ()
 ◇
 △

Y/BA
 .289
 .364
 .427
 .534

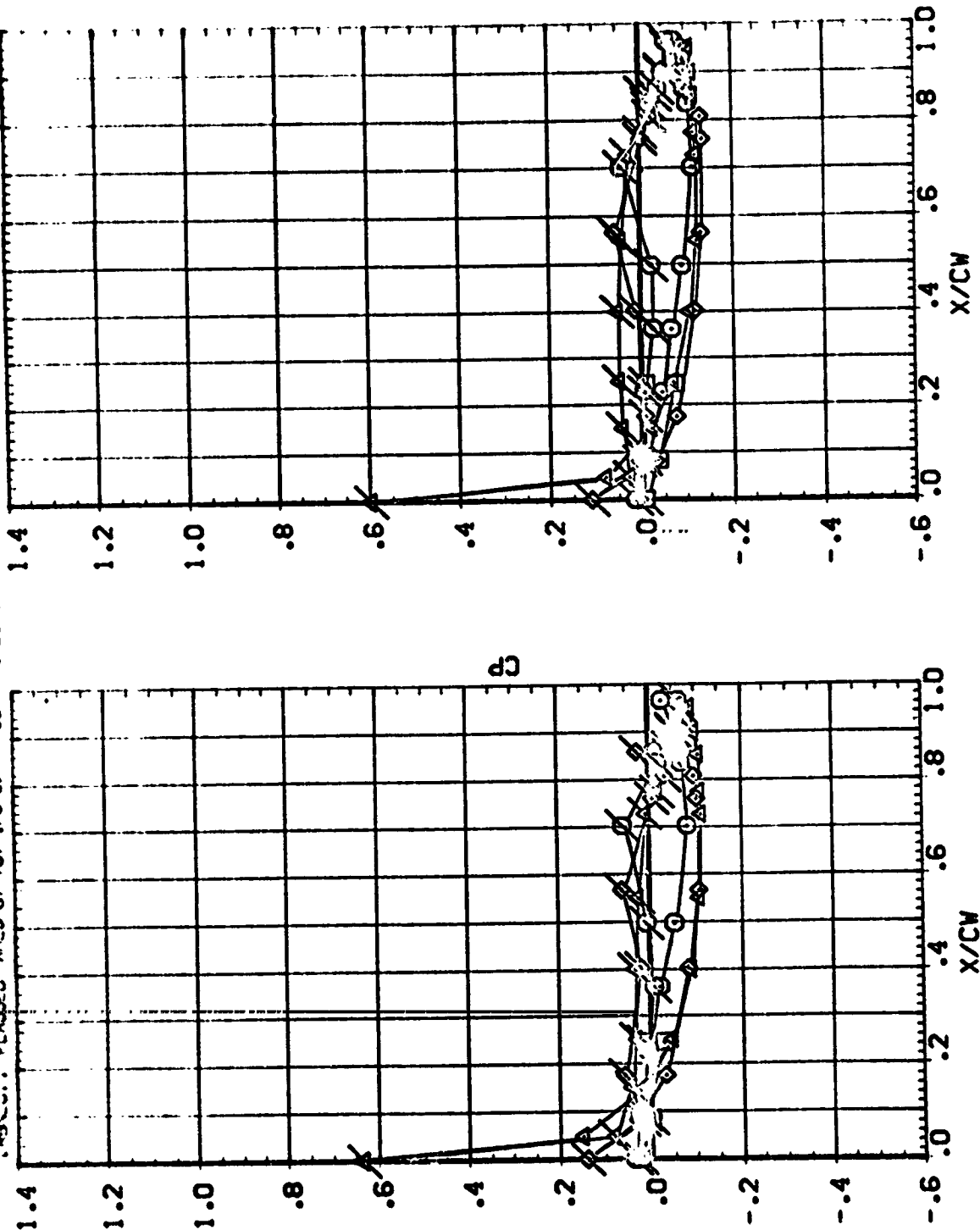
ALPHAT
 -4.070
 -0.030

MACH
 3.500

PARAMETRIC VALUES

BETAT
 RJOER
 RJOFLR
 .000
 .000
 .000
 .000
 .000
 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 : 08 : 01 : OPEN ASES 87-707 : AS 02A : S3 : T8 UPPER WING
 : 08 : 01 : FLANGED ASES 87-707 : AS 02A : S3 : T8 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETRIC VALUES

BETA' .000
 RLODER .000
 RLODR .000

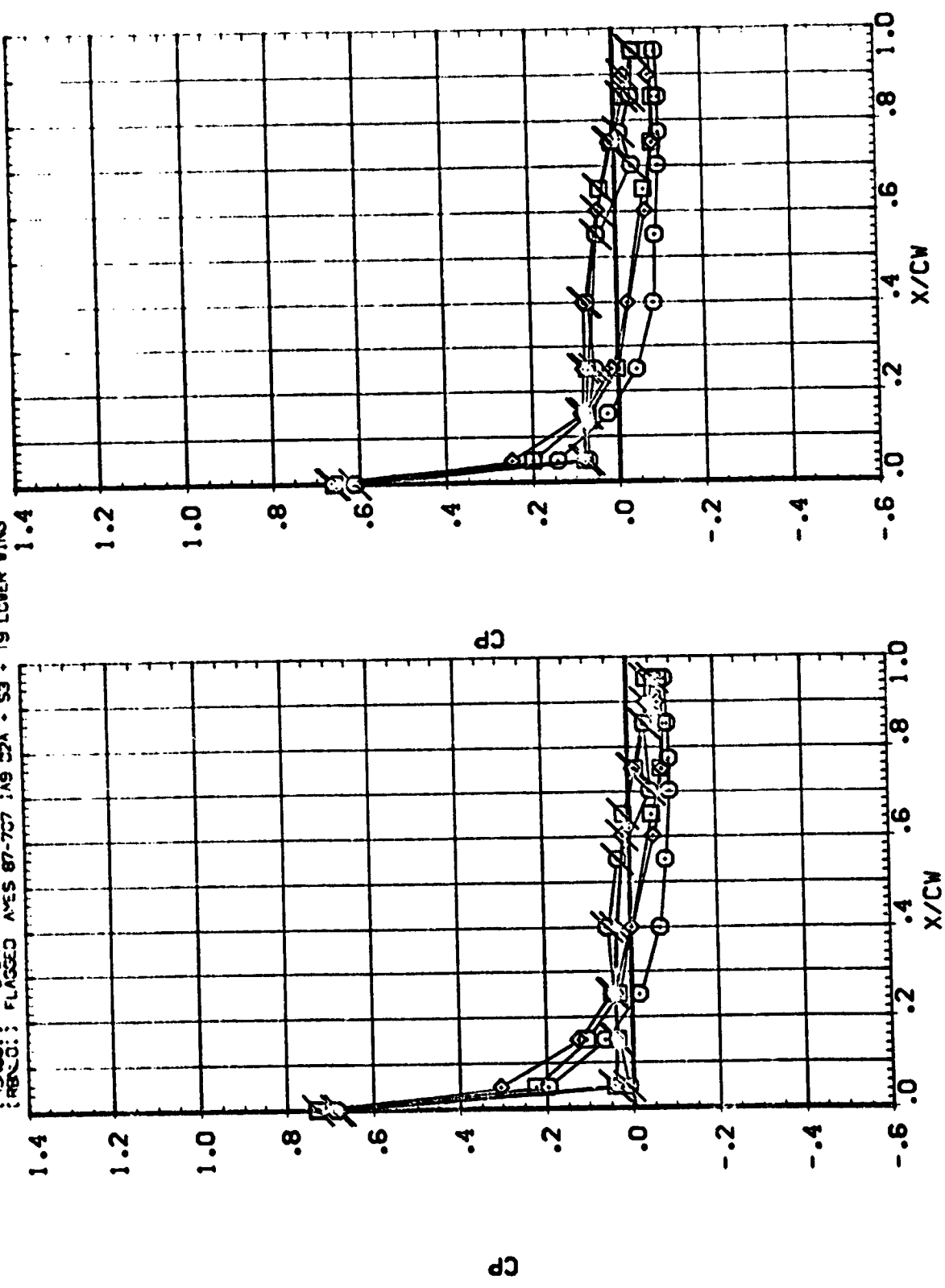
ORIGIN .000
 ELEVON .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION

RENO:1 OPEN AYES 87-707 :A9 C2A : S3 : T9 UPPER WING
 RENO:2 FLAGGED AYES 87-707 :A9 C2A : S3 : T9 LOWER WING

SYMBOL V/BV A/PAT WAC

78C .673 -4.07C 3.502
 78C .78C -4.07C 3.502
 78C .887 -4.07C 3.502



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL γ/β

() .799

○ .364

△ .427

△ .534

ALPHAT MACH

3.960 3.502

8.0:0

PARAMETRIC VALUES

BETAT .000 .999:NC .500

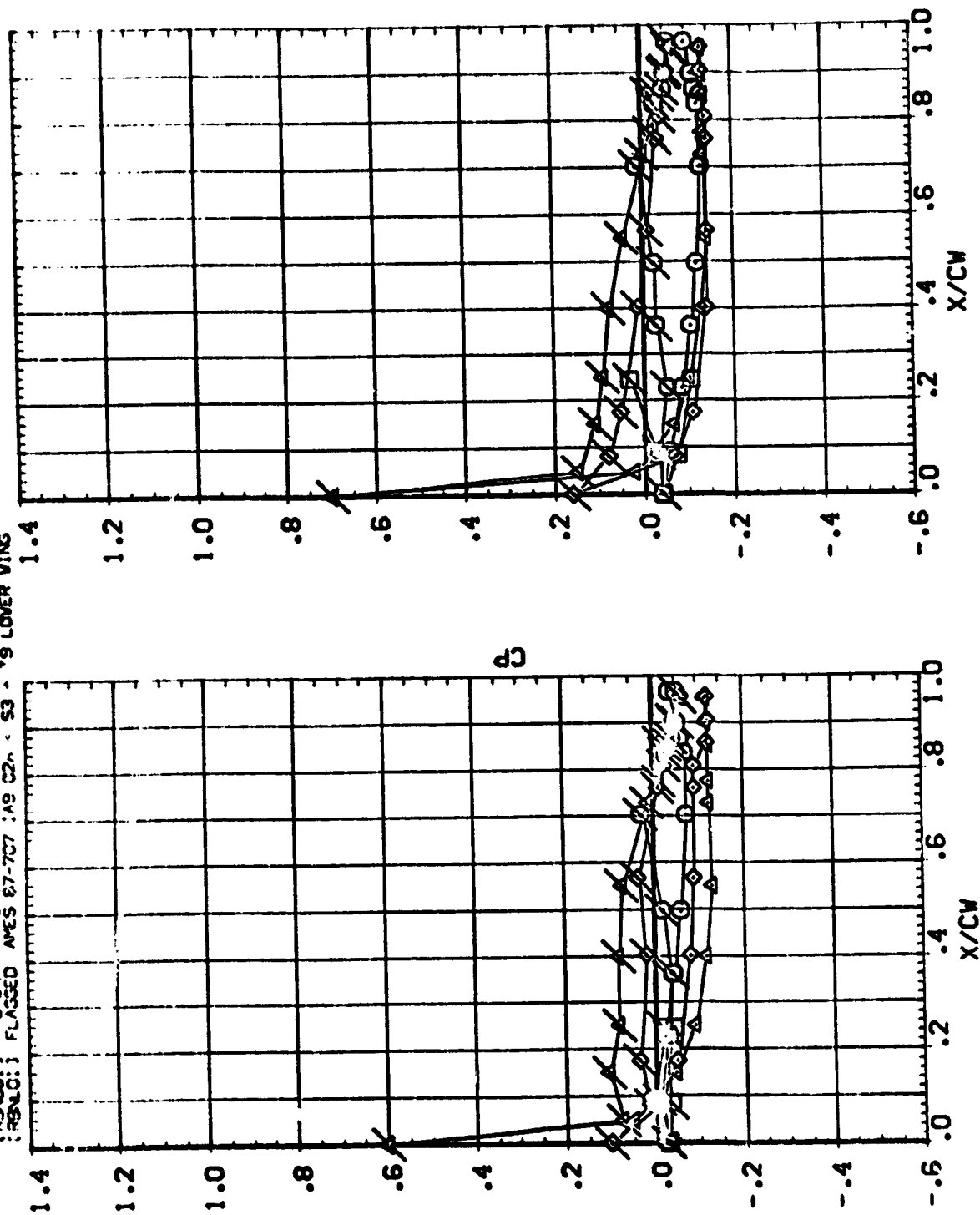
RUDER .000 .ELEVON .000

RUDFLR .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RSLD:) OPEN AYES 87-707 IAG C21 - S3 - T9 UPPER WING

(RSLD:) FLAGGED AYES 87-707 IAG C21 - S3 - T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL

Y/BW
.673
.78C
.887

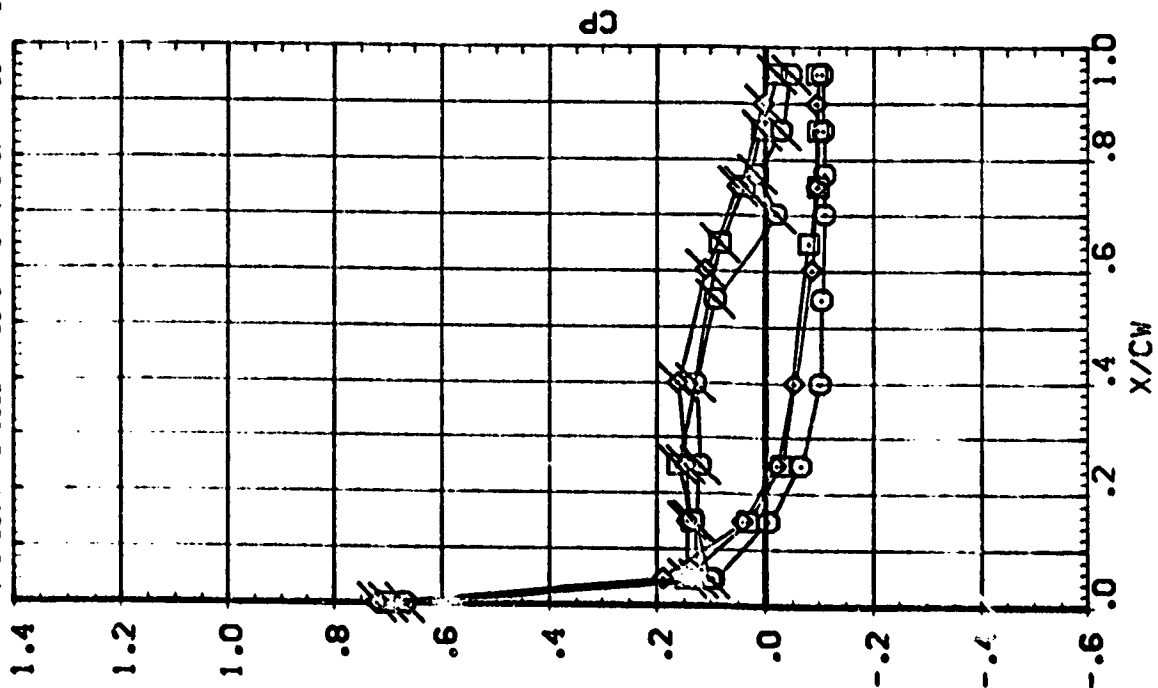
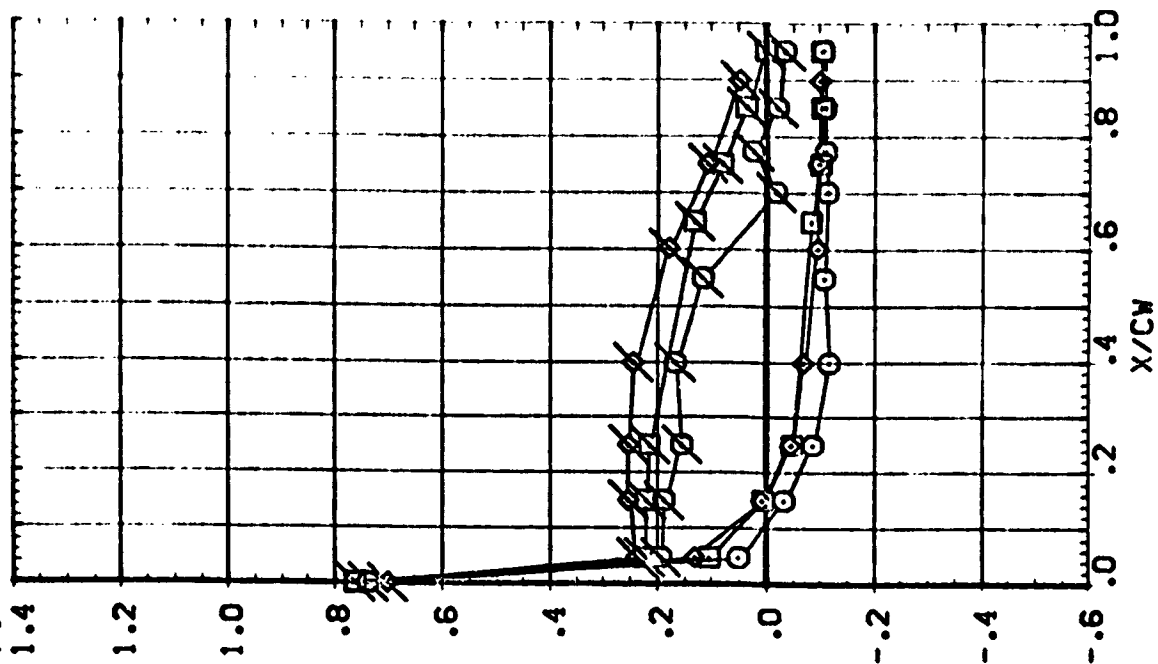
A₀ - A₁
3.95C
8.01C

W/C
3.522

PARAMETRIC VALUES
BETAT
RUDER
RUDFLR

.500
.500
.500

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(P/N) : OPEN ASES 87-707 IAG C2A : S3 : T9 UPPER WING
(R/N) : FLAGGED ASES 87-707 IAG C2A : S3 : T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

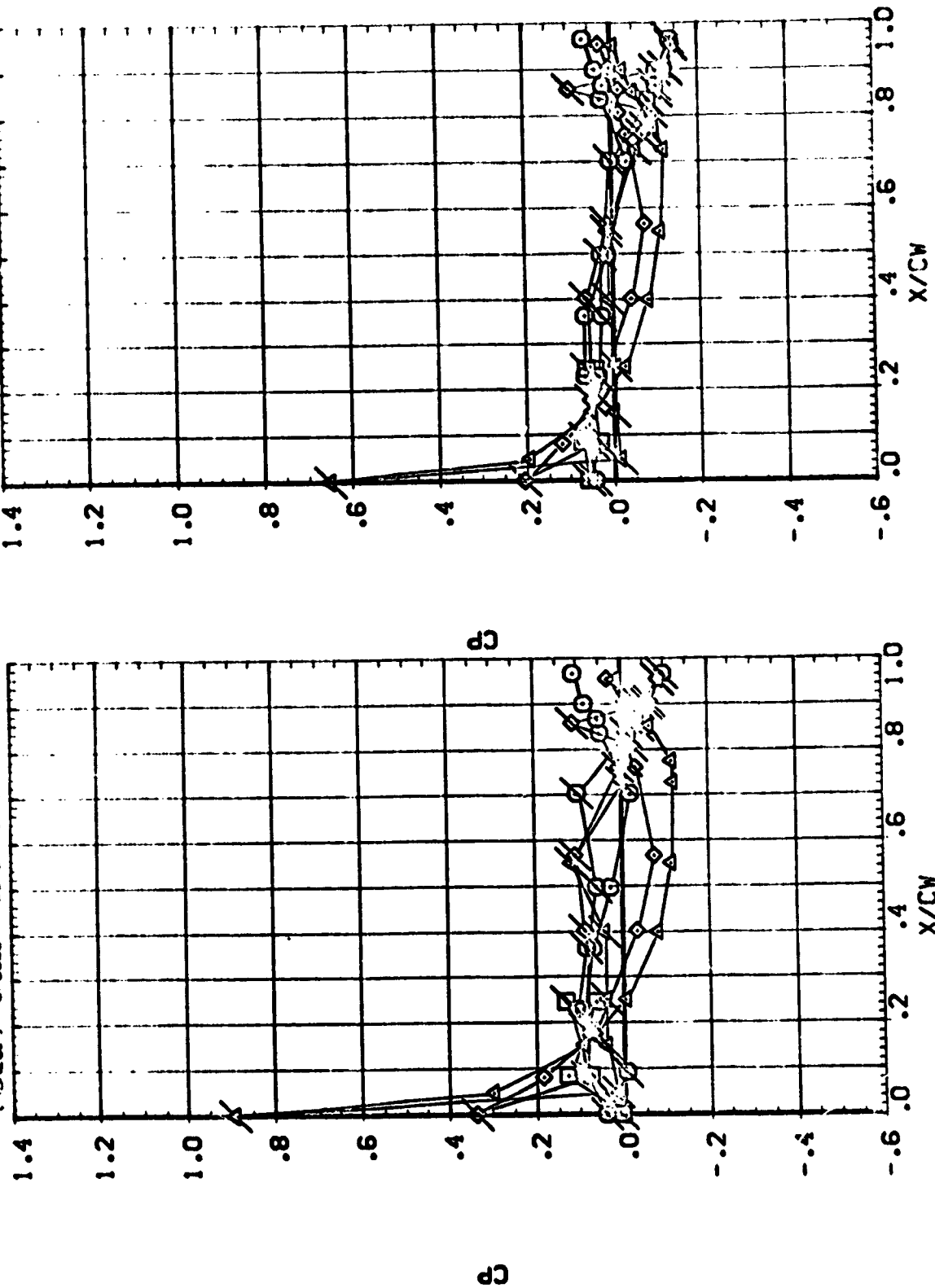
SYMBOL 1/BN .799
 .354
 .477
 .534

BETA 4.170
 2.180

WACH 2.498

PARAMETRIC VALUES
 ALPHA -8.000 999.100
 RADIUS .000 ELEVON .000
 RADIUS .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (99) (2) OPEN ASES 87-707 (19) CDA : S3 : 19 UPPER WING
 (28) (2) FLAGGED ASES 87-707 (19) CDA : S3 : 19 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL: γ/β
 .673
 .78C
 .887

BEAT: α/β
 -4.17C
 2.18C

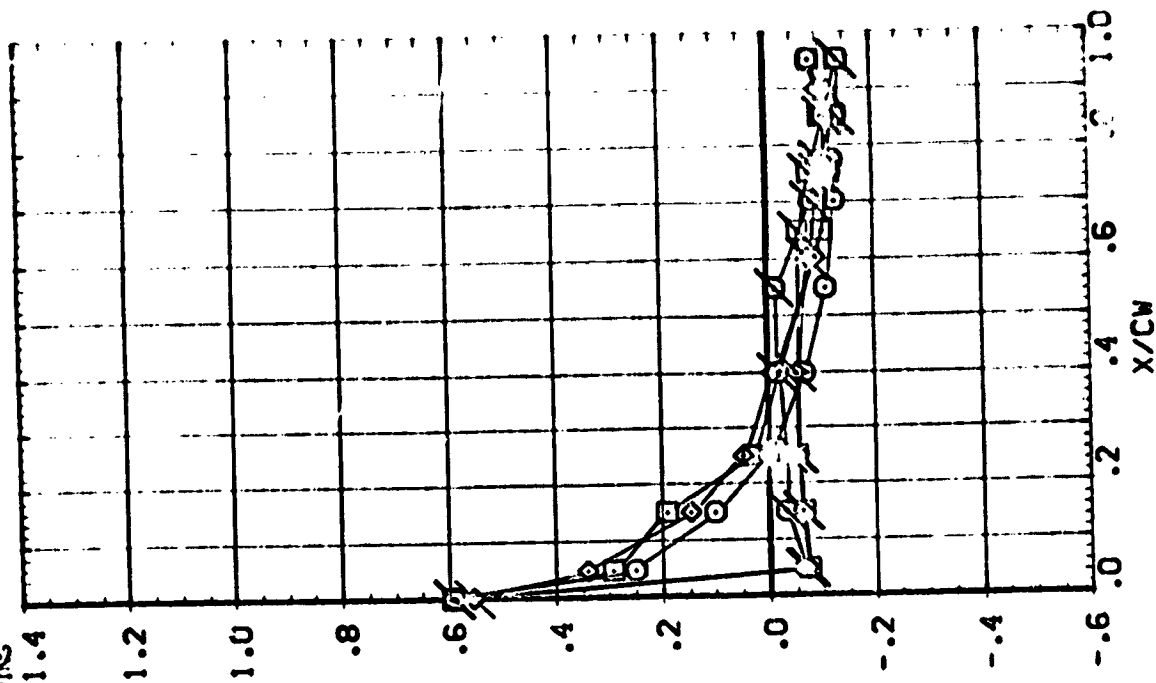
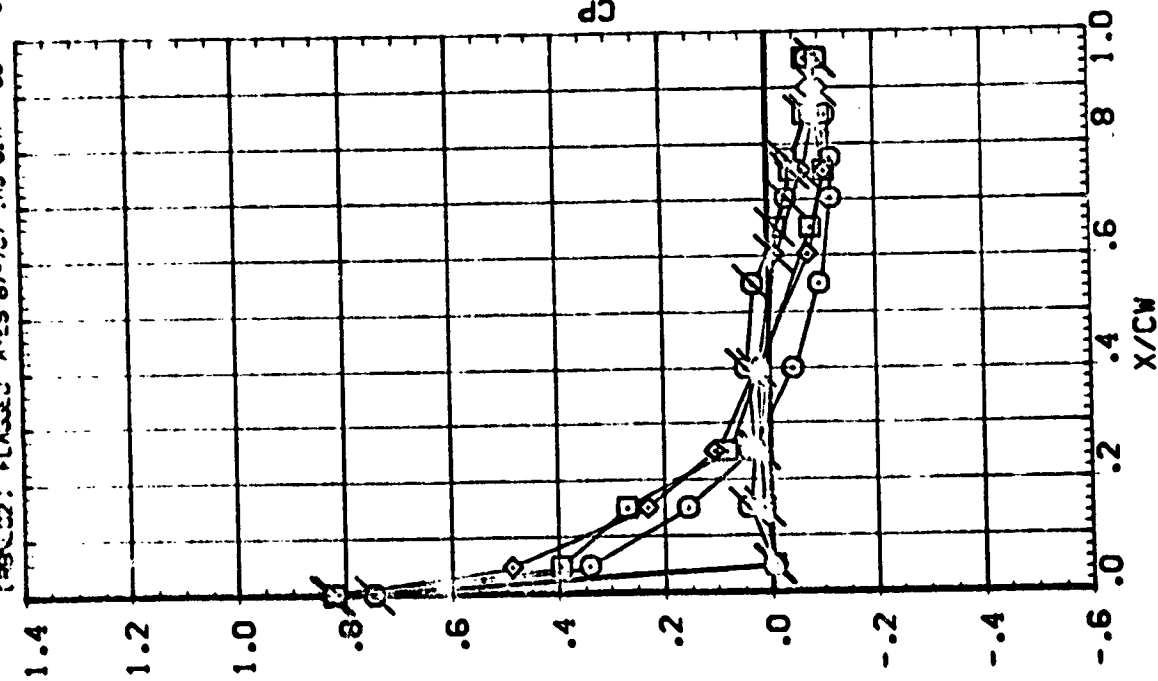
WAC-
 2.498

PARAMETER VALUES

ALPHA: .000
 FLIGHT: .000
 ELEVATION: .000
 RADIUS: .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION

18-27 OPEN ASES 87-707 1A 22A 53 19 UPPER WING
 18-27 FLASSED ASES 87-707 1A 22A 53 19 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETRIC VALUES

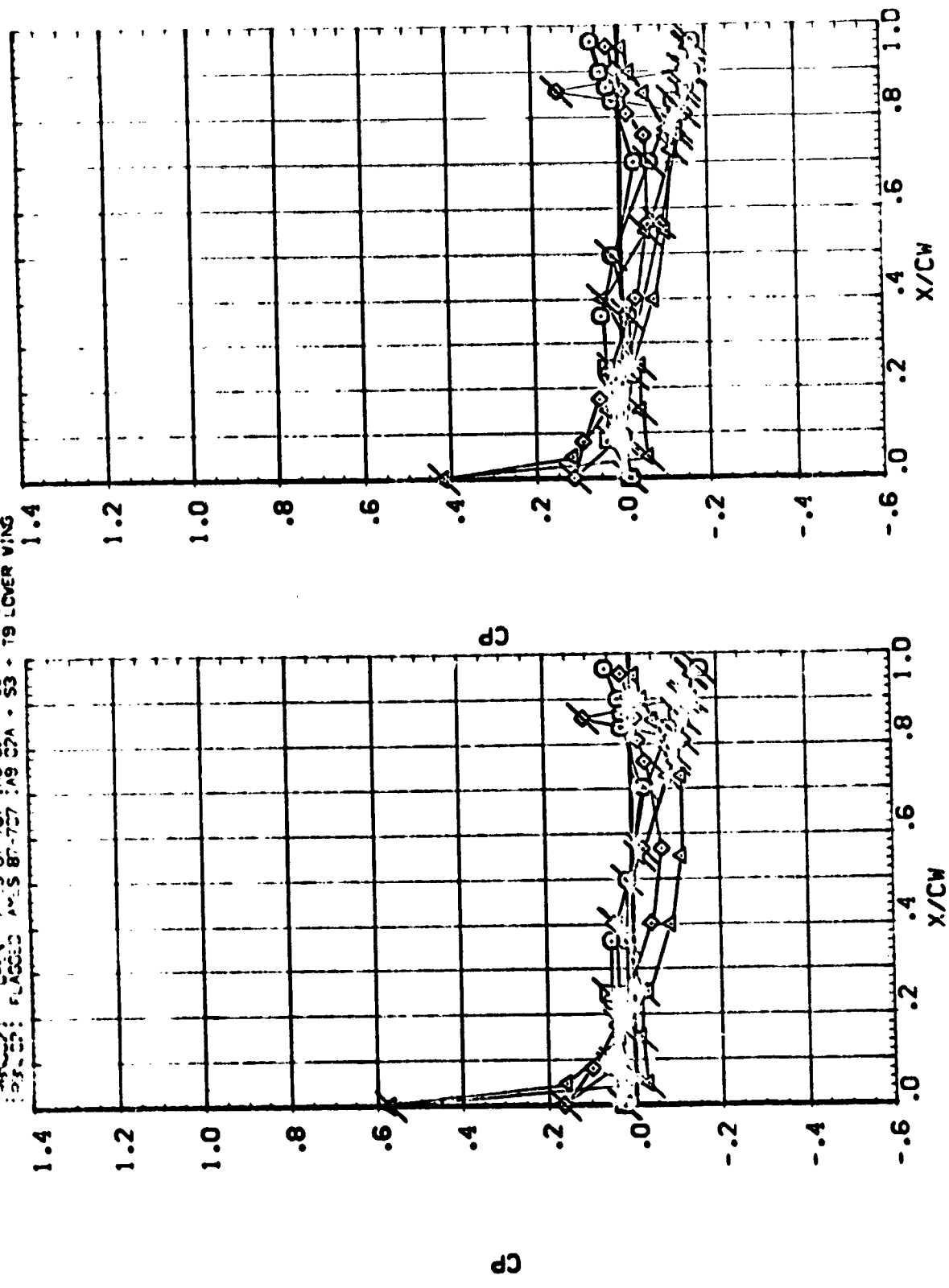
ALPHA	0.000	0.000
REYNOLDS	1.000	1.000
ANGLE	0.000	0.000

SYMBOL Y/B

SYMBOL	Y/B	W/C
0.299	4.320	2.498
0.354	0.500	
0.477		
0.534		

DATA SET SYMBOL DESCRIPTION

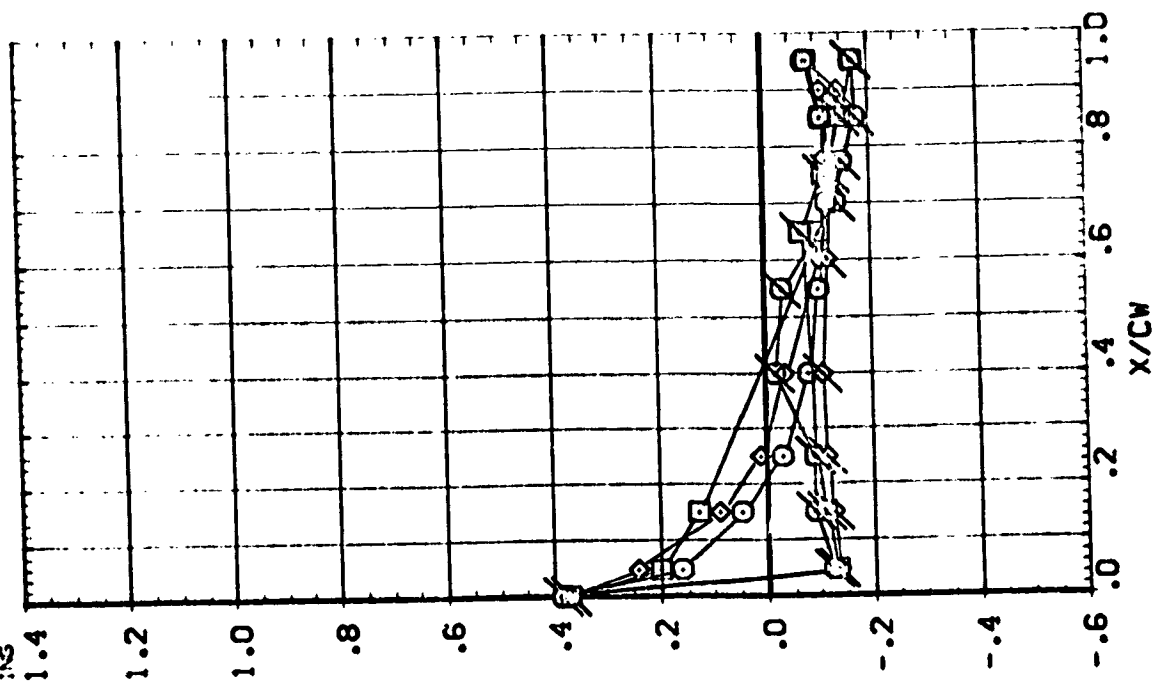
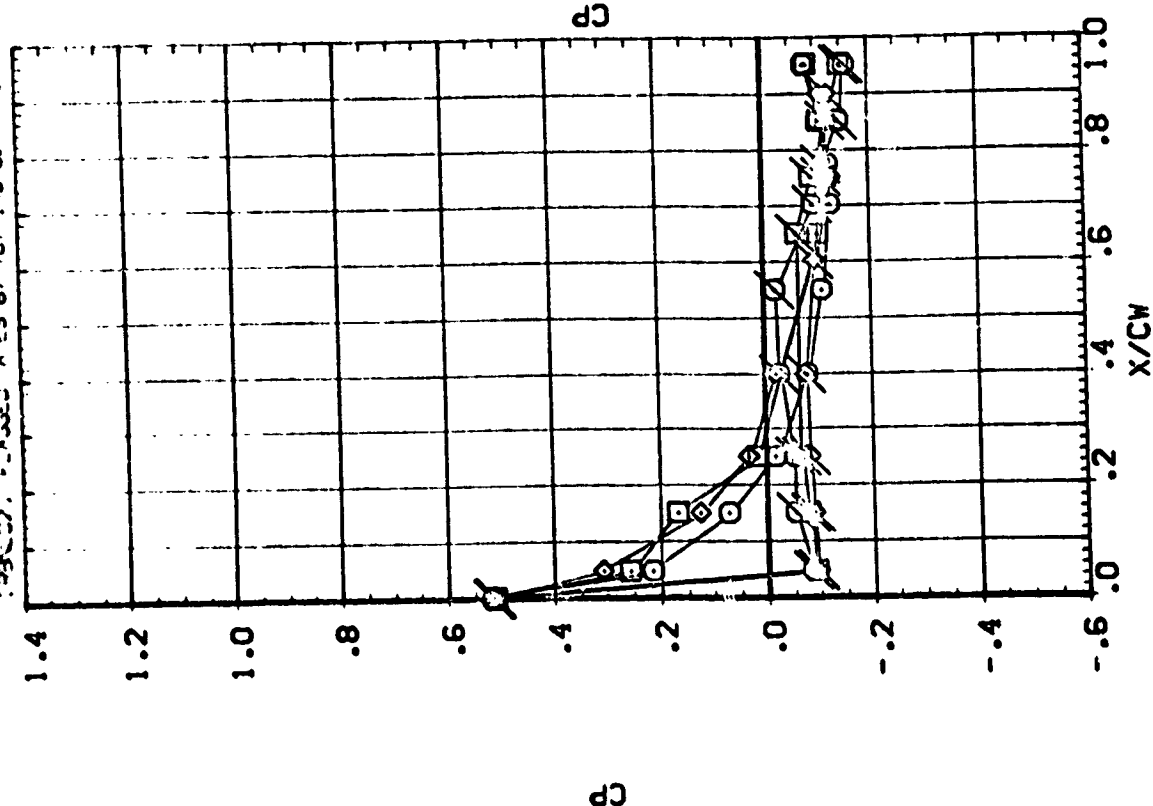
0.299	0.299	UPPER WING
0.354	0.354	LOWER WING
0.477	0.477	UPPER WING
0.534	0.534	LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

2.499

	PARAMETRIC VALUES
ALPHA	.00000
BETA	.00000
PSYCH	.00000

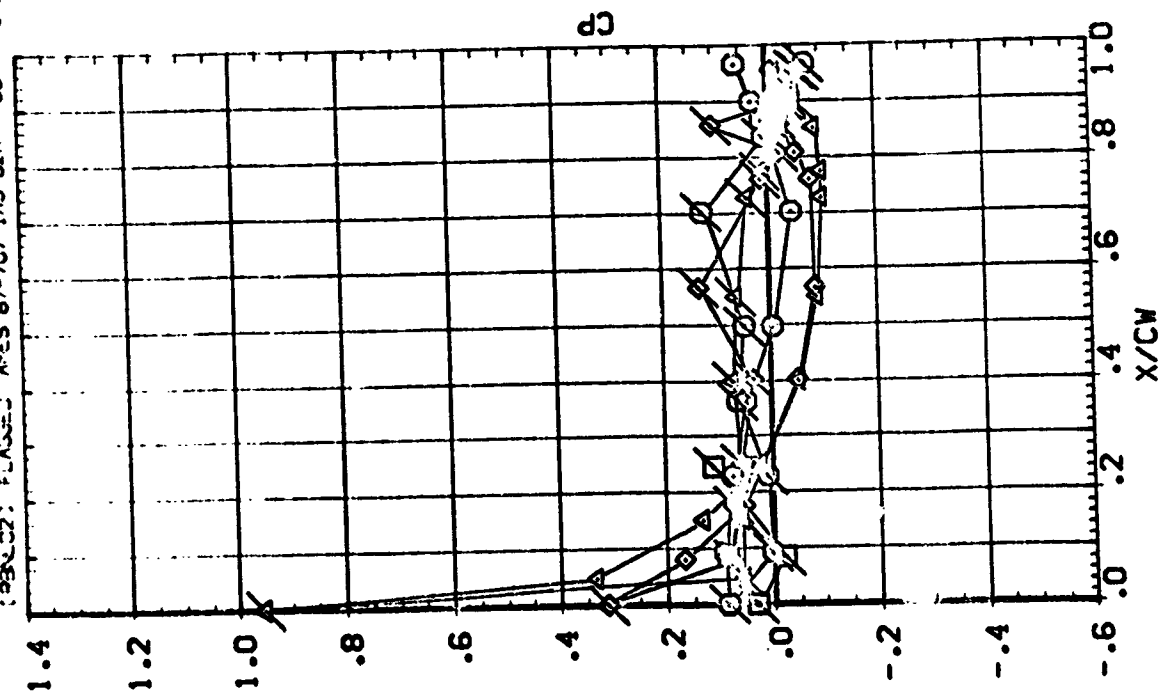
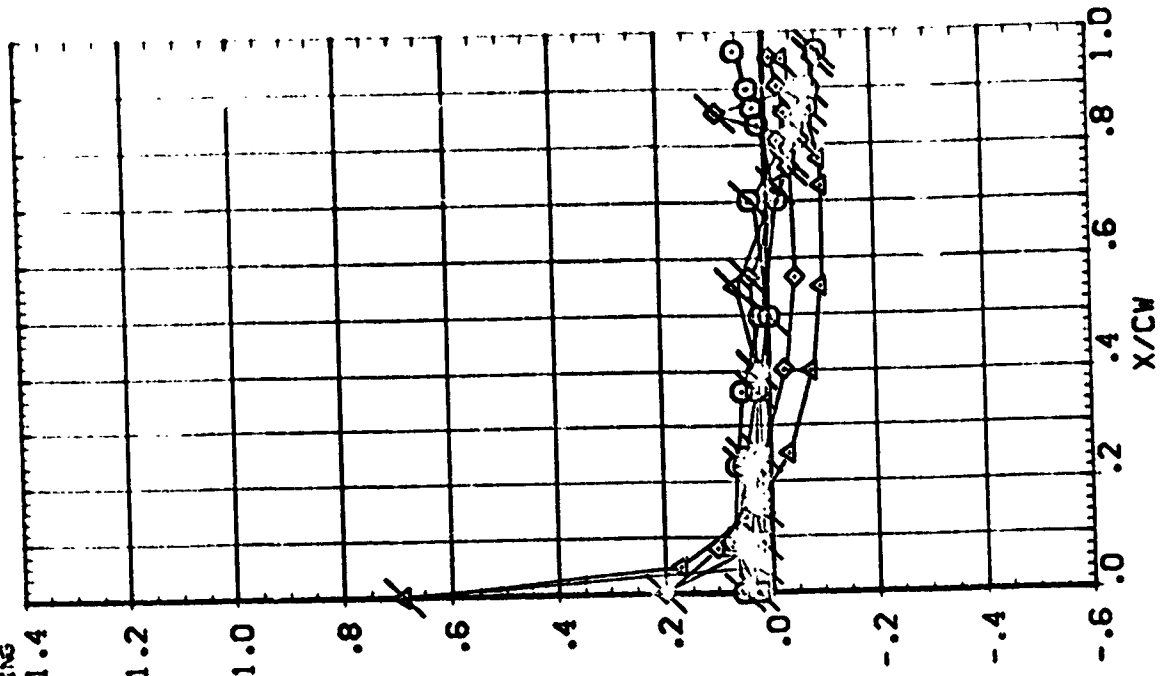
[illegible]

CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETRIC VALUES
 ALPHA: -8.000 0981 NC
 RUDDER .000 ELEVON
 RUDDER .000

DATA SET: SWSG: 289
 BEAT: -4.25C 2.999
 2.23C

CONFIGURATION DESCRIPTION
 AXES 87-707 1A9 C2A + S3 + T9 UPPER WING
 AXES 87-707 1A9 C2A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

01010

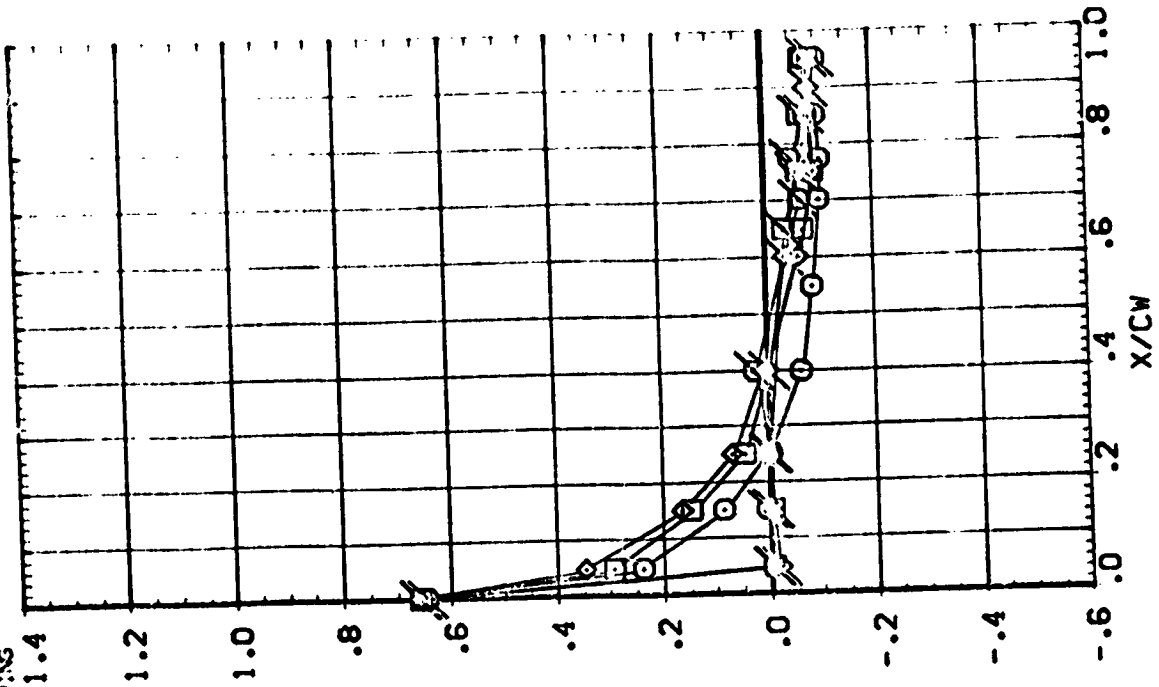
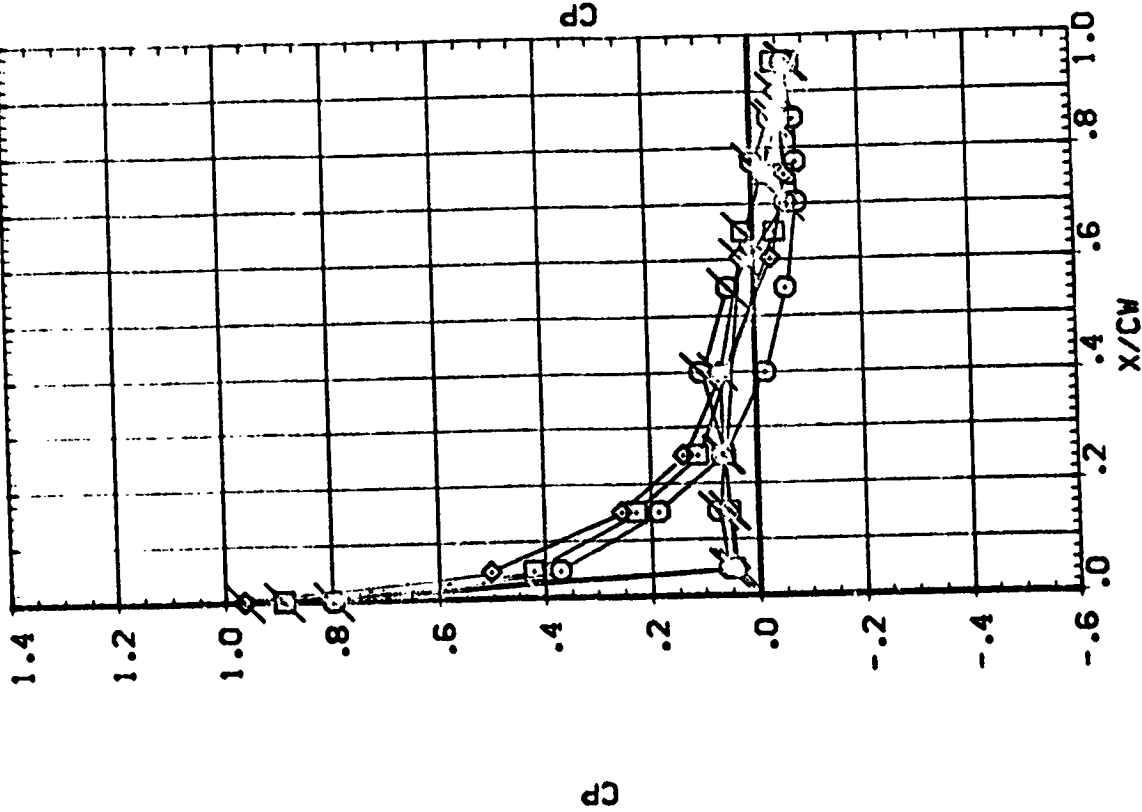
.78C
.887

2.73C

RJDFLR

.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
18 22 OPEN AYES 87-707 1A9 02A + S3 + 19 UPPER WING
18 22 FLASSED AYES 87-707 1A9 02A + S3 + 19 LOWER WING

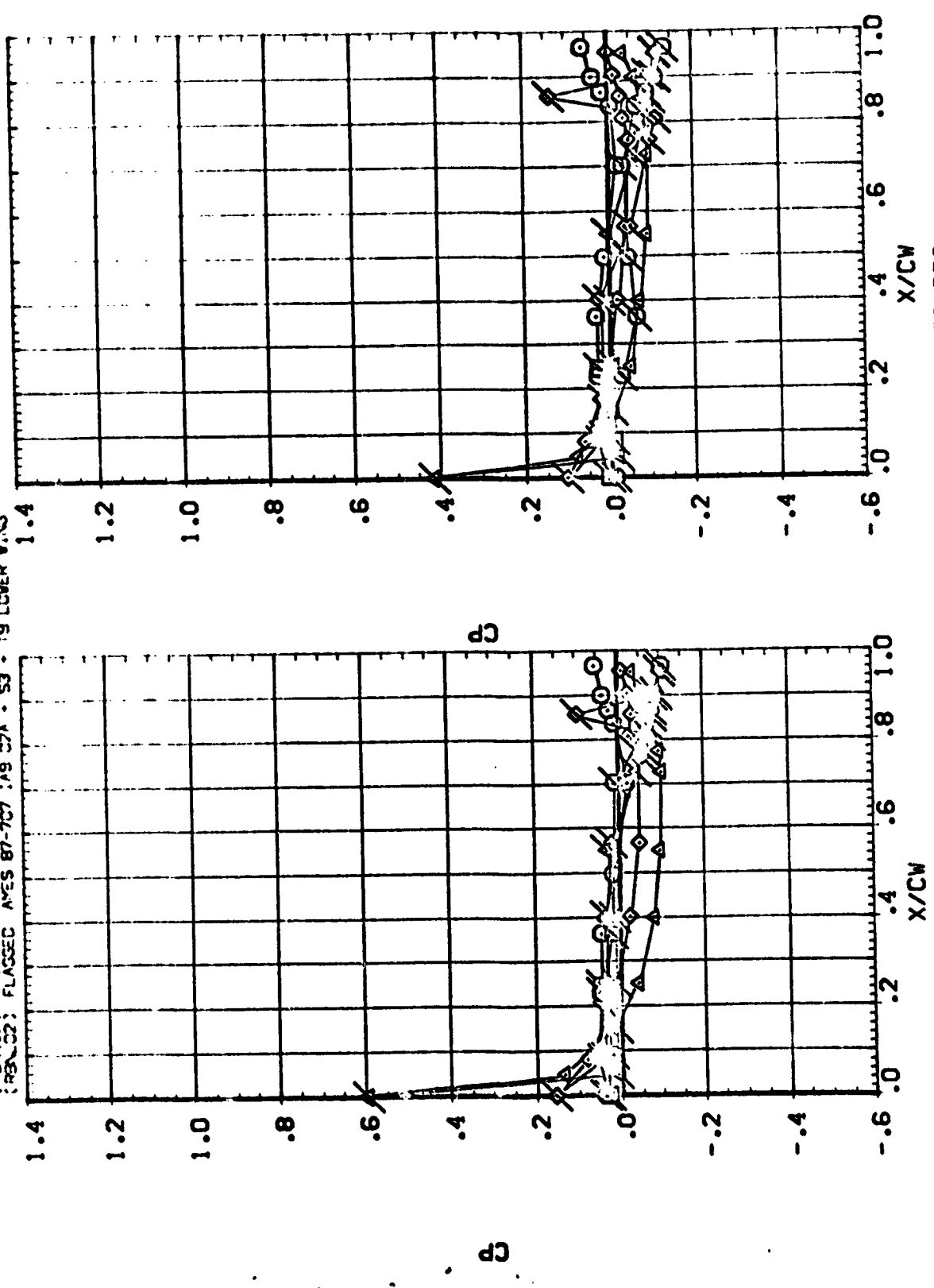


CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETER VALUE
 ALPHA 0.000 0.000 0.000
 RADIUS 0.000 0.000 0.000
 RADIUS 0.000 0.000 0.000

S.W.C. 1/3 2.99 4.400 8.750
 BETAT 2.999
 WAC 2.999

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBN 02) OPEN AXES 87-707 : 19 02A : 53 : 19 UPPER WING
 (RBN 02) FLASSED AXES 87-707 : 19 02A : 53 : 19 LOWER WING



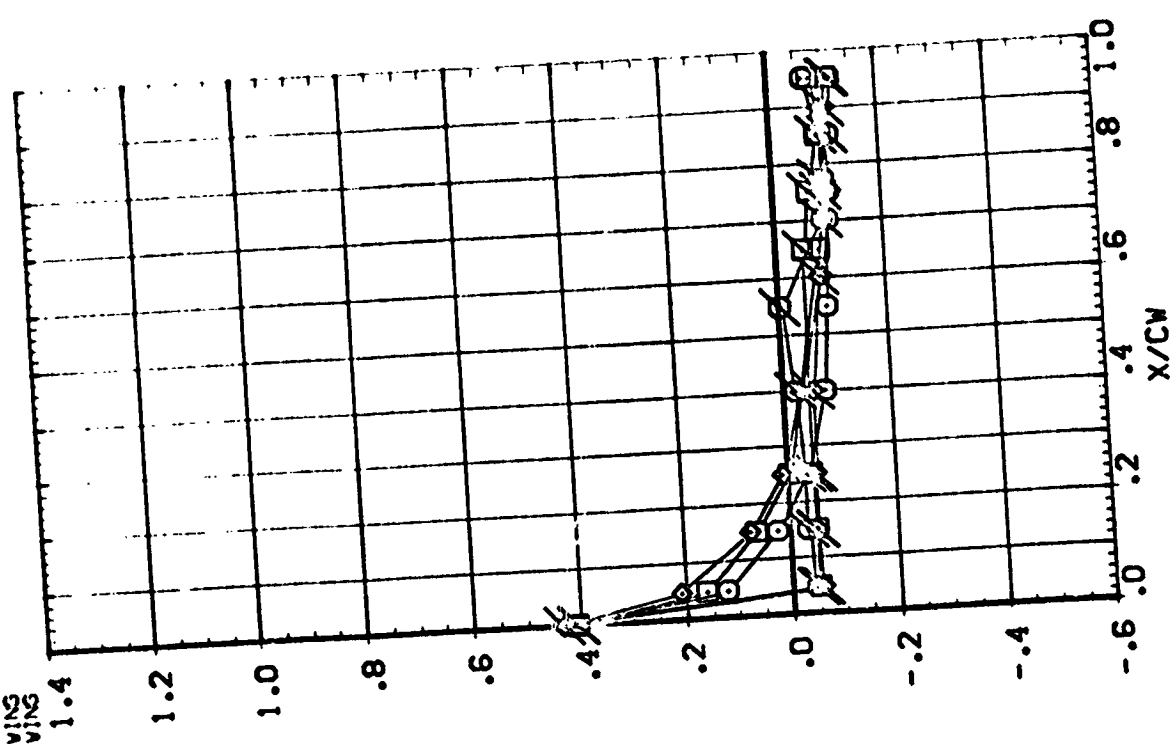
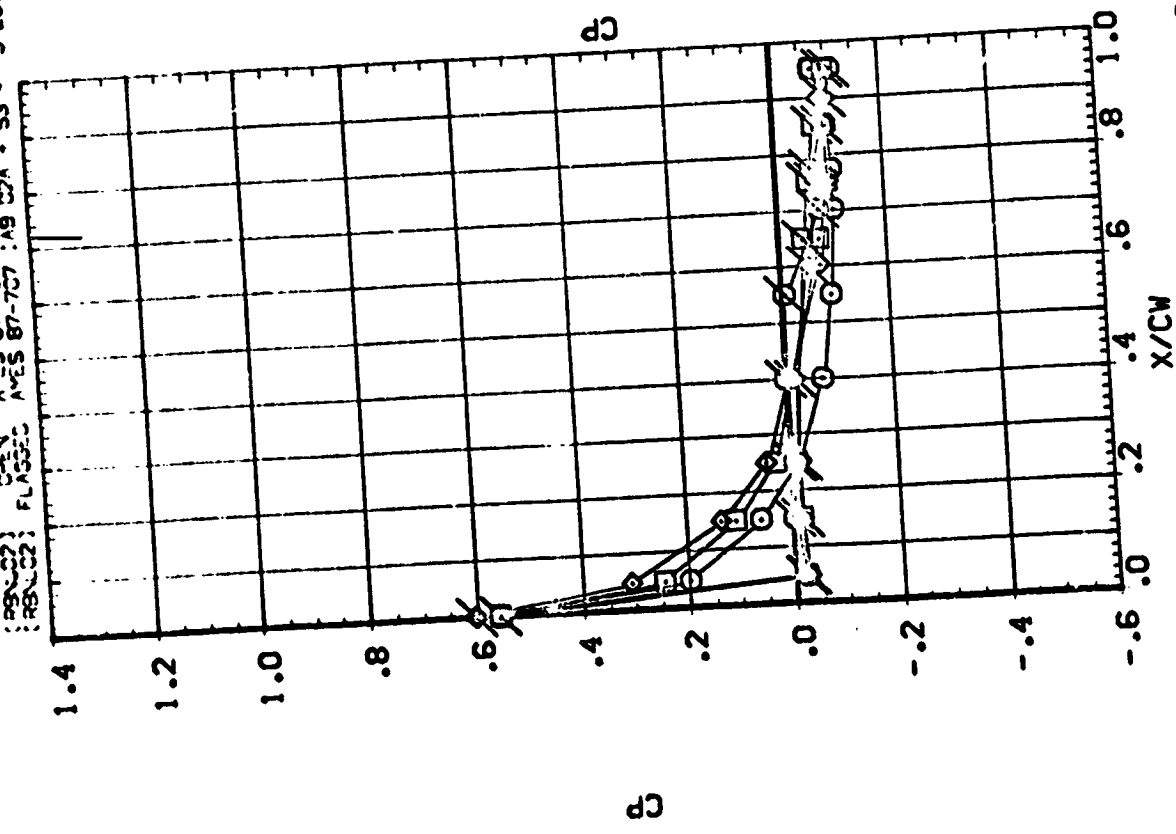
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

1000
2.500

4.400
8.750

SWEC
v/34
.673
.780
.887

DATA SET
(P8N02)
(P8N02)
SYNCO
CEN
FLASSED
CONFIGURATION DESCRIPTION
AVES 87-707 : A9 C2A : S3 : T9 UPPER WING
AVES 87-707 : A9 C2A : S3 : T9 LOWER WING



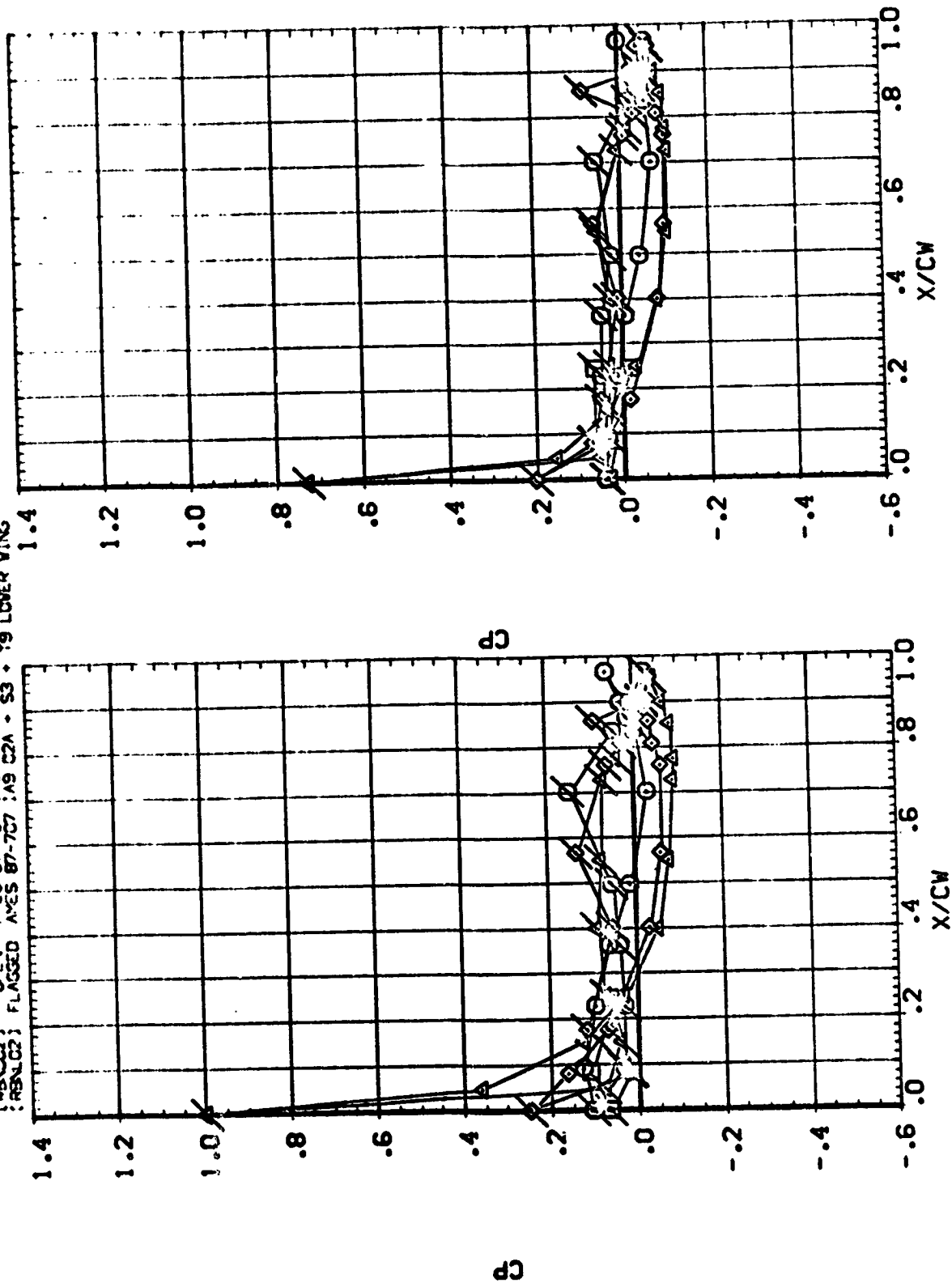
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL Y/BN
 () .289
 O .364
 X .427
 A .534

BETAT MACH
 -4.330 3.502
 2.760

PARAMETRIC VALUES
 ALPHA -8.000 0.000
 RUDER .000 .000
 ROLL .000 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RESLOC) OPEN AXES 87-707 1A9 C2A - S3 + T9 UPPER WING
 (RESLOC) FLAGGED AXES 87-707 1A9 C2A - S3 + T9 LOWER WING



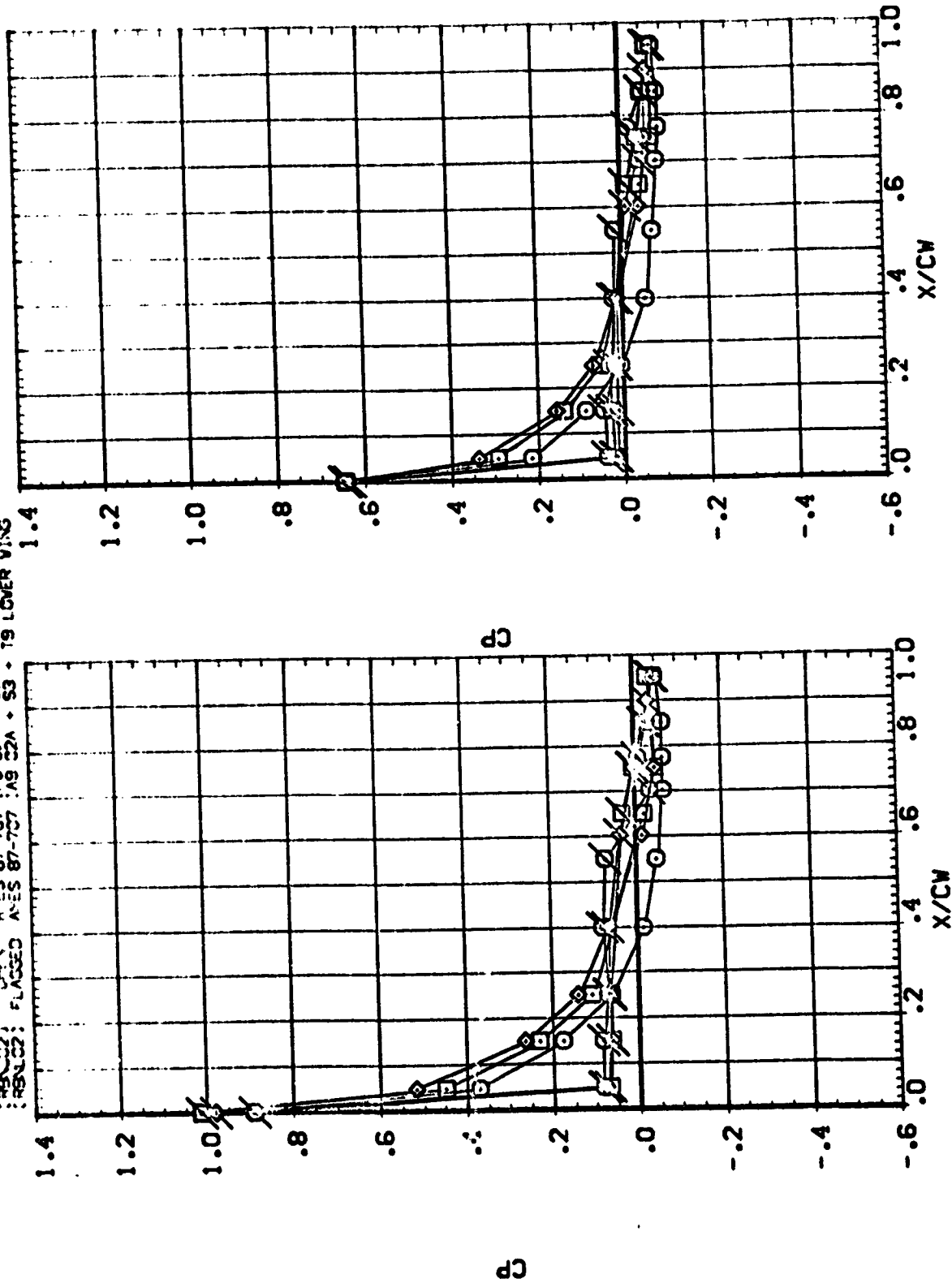
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

BE'AT	WACH
-4.33C	3.502
2.26C	

ALPHA
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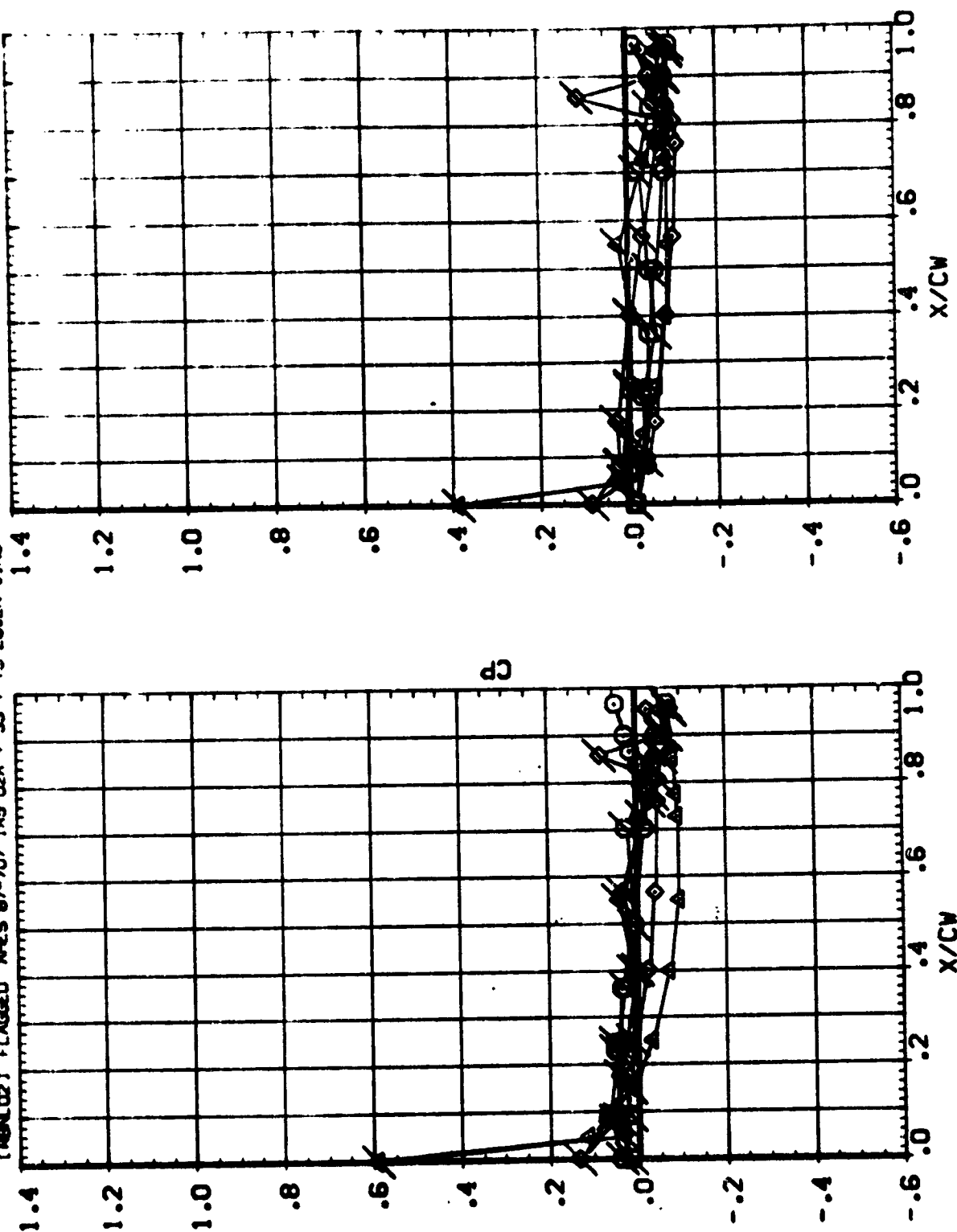
DATA SET	SYMBOL	CONFIDENCE	DESCRIPTION
RES02	OFF	AVES 87-757	19 02A + S3 + 19 JOPER VING
RES02	FLAGGED	AVES 87-757	19 02A + S3 + 19 LOVER VING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/BV	BETA	MACH	ALPHA	RUDER	RUDFLR	PARAMETRIC VALUES
()	.299	4.480	3.502	-8.000	.000	.000	ORBITAL
○	.364	8.910		.000	.000	.000	ELEVON
△	.427						
Λ	.534						

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 [REPL02] OPEN ANES 87-707 1A9 D2A + S3 + 19 UPPER WING
 [REPL02] FLAGGED ANES 87-707 1A9 D2A + S3 + 19 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETRIC VALUES

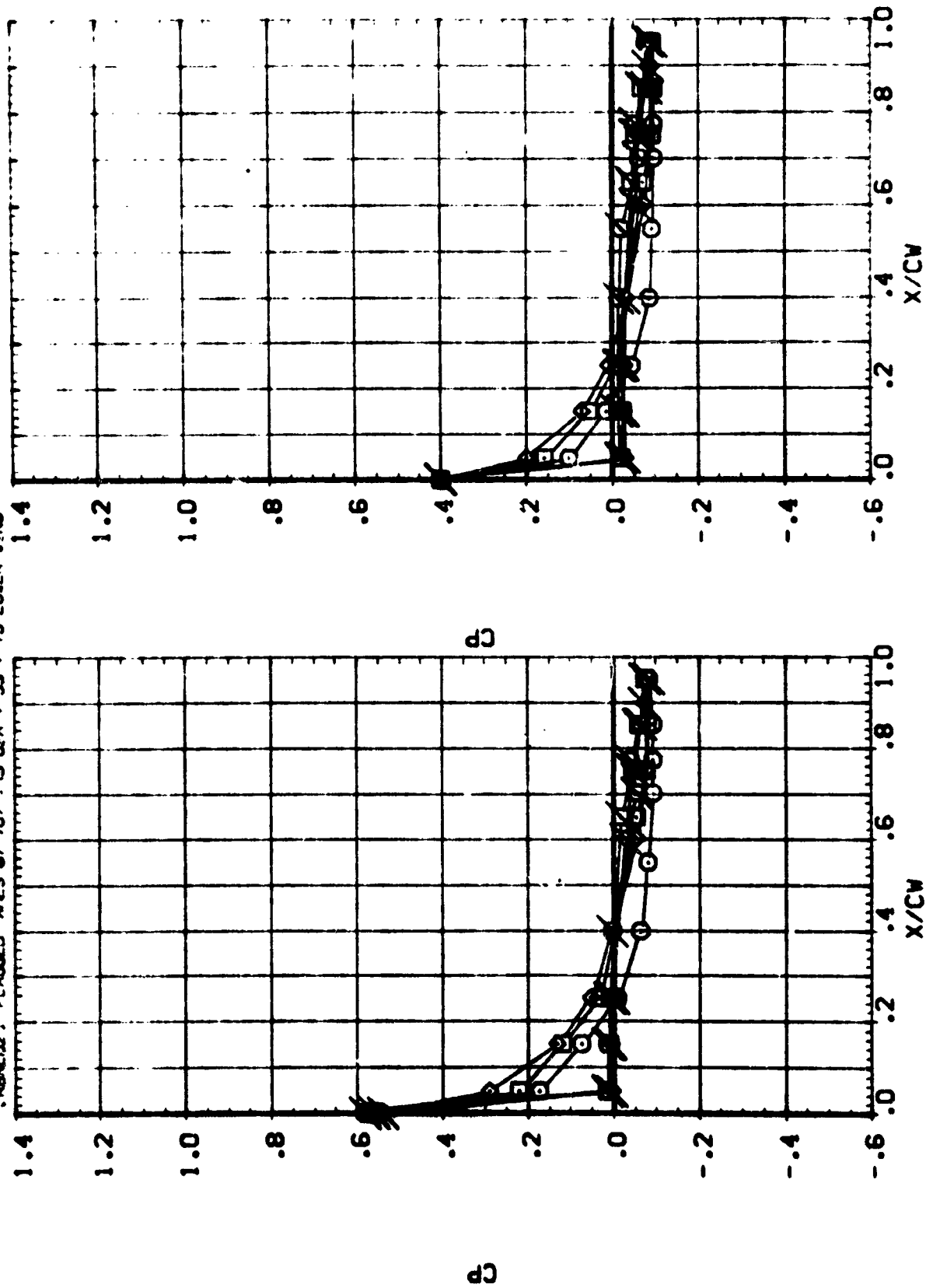
ALPHA	0.000	0.000	0.500
RUDDER	0.000	0.000	0.000
RUD. P	0.000	0.000	0.000

SYMBOL Y/BV BEAT MACH

◇	.673	4.480	3.502
○	.780	8.910	
◇	.887		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

[RBNL02]	OPEN	AVES 87-707 1A9 C2A + S3 + 19 UPPER WING
[RBNL02]	FLAGGED	AVES 87-707 1A3 C2A + S3 + 19 LOWER WING

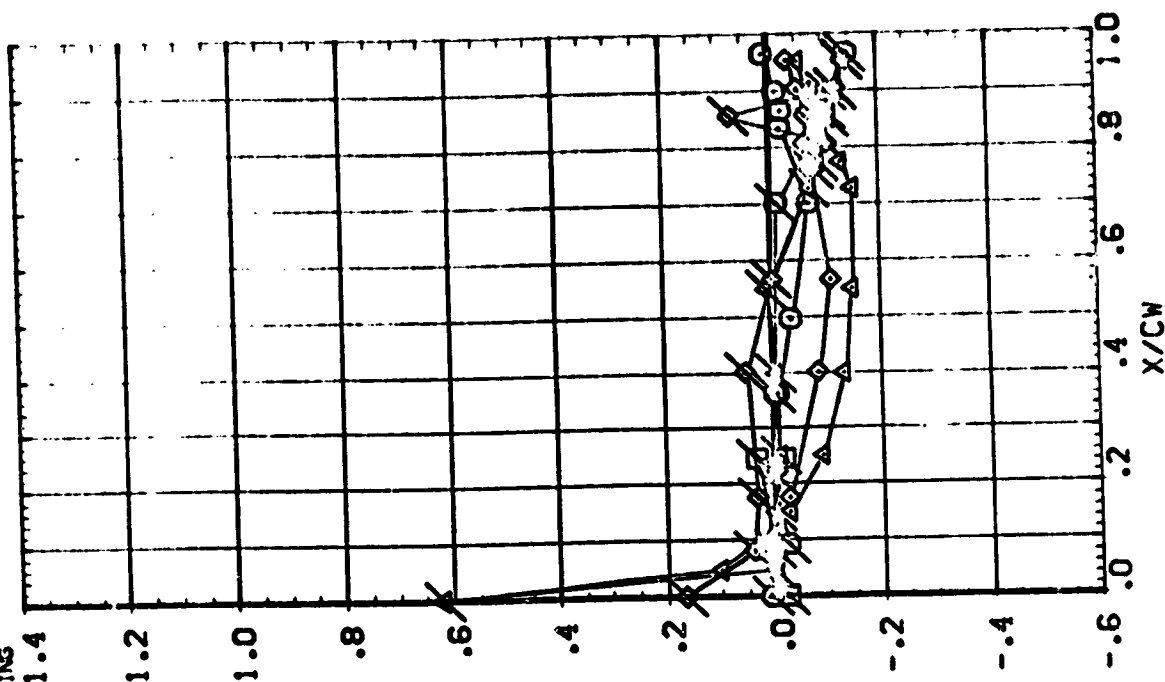
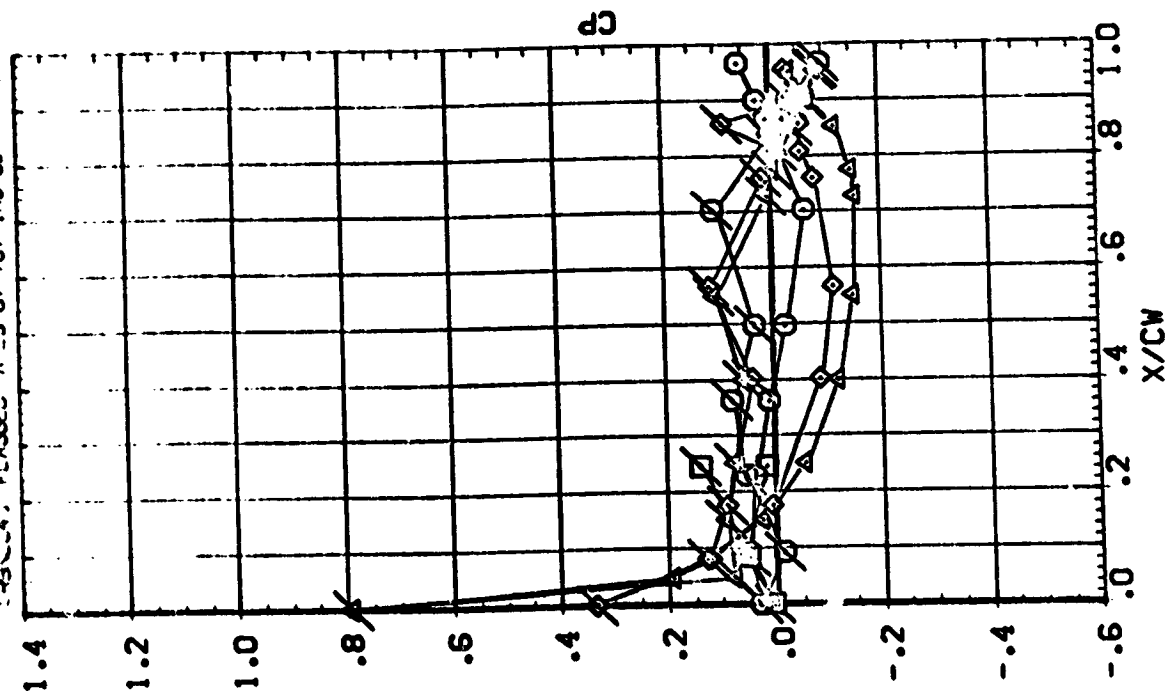


CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

ST-100-100-100

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DATA	SYMBOL	CONF	DESCRIPTION
87-757	AMES	53	UPPER VING
87-757	AMES	53	LOWER VING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETRIC VALUES

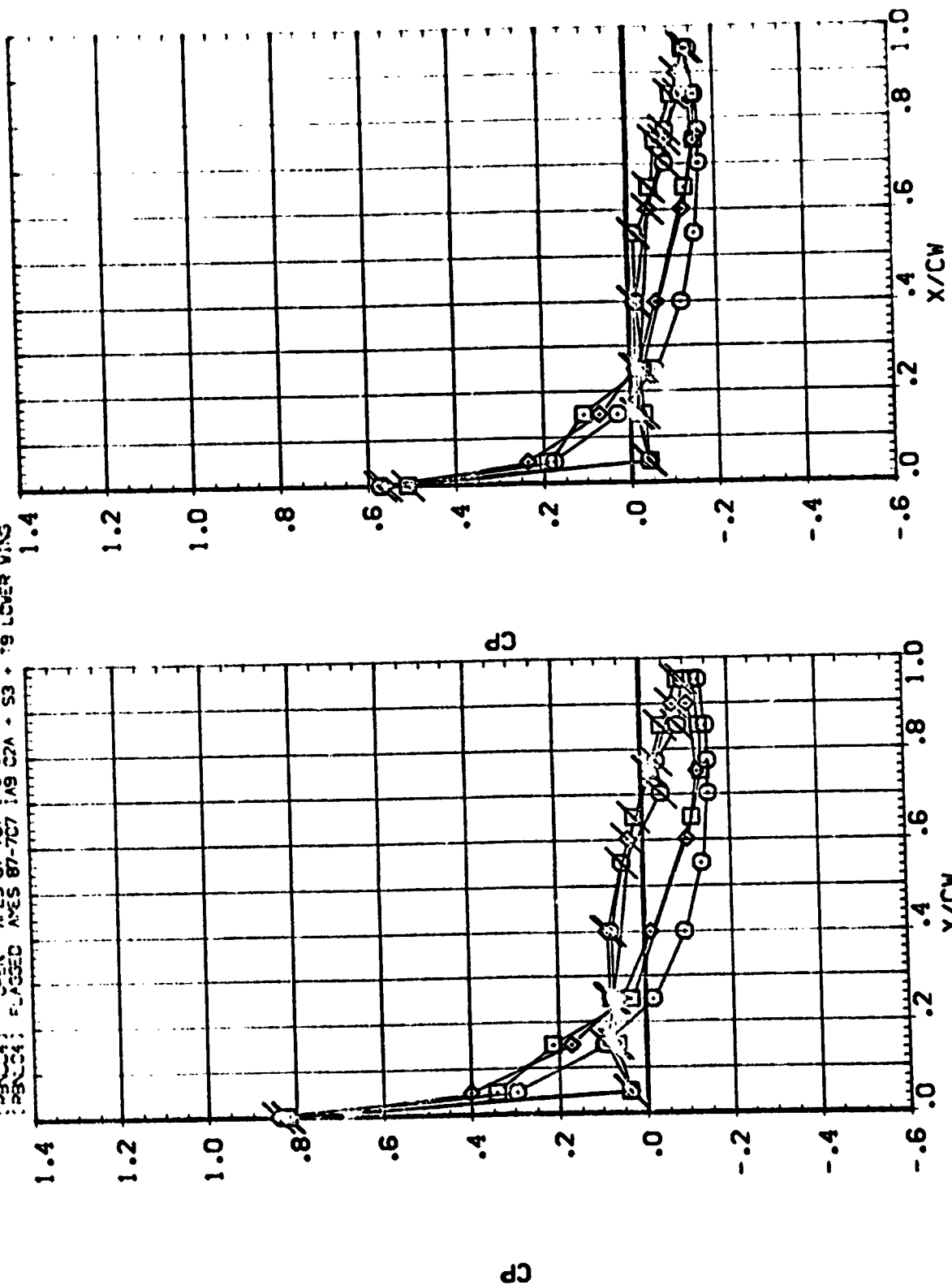
ALPHA	-4.000	299.1
RUDDER	.000	ELEV
RUOTLR	.000	

SYMBOL

V/B	.573	BEAT	2.498
	.780		
	.887		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

PERIOD	OPEN	AVES 87-707	1A9 C7A	S3	19	UPPER WING
PERIOD	FLASSED	AVES 87-707	1A9 C7A	S3	19	LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SWBC
○
◇
△

V/34
.299
.364
.427
.534

BETA
4.300
8.550

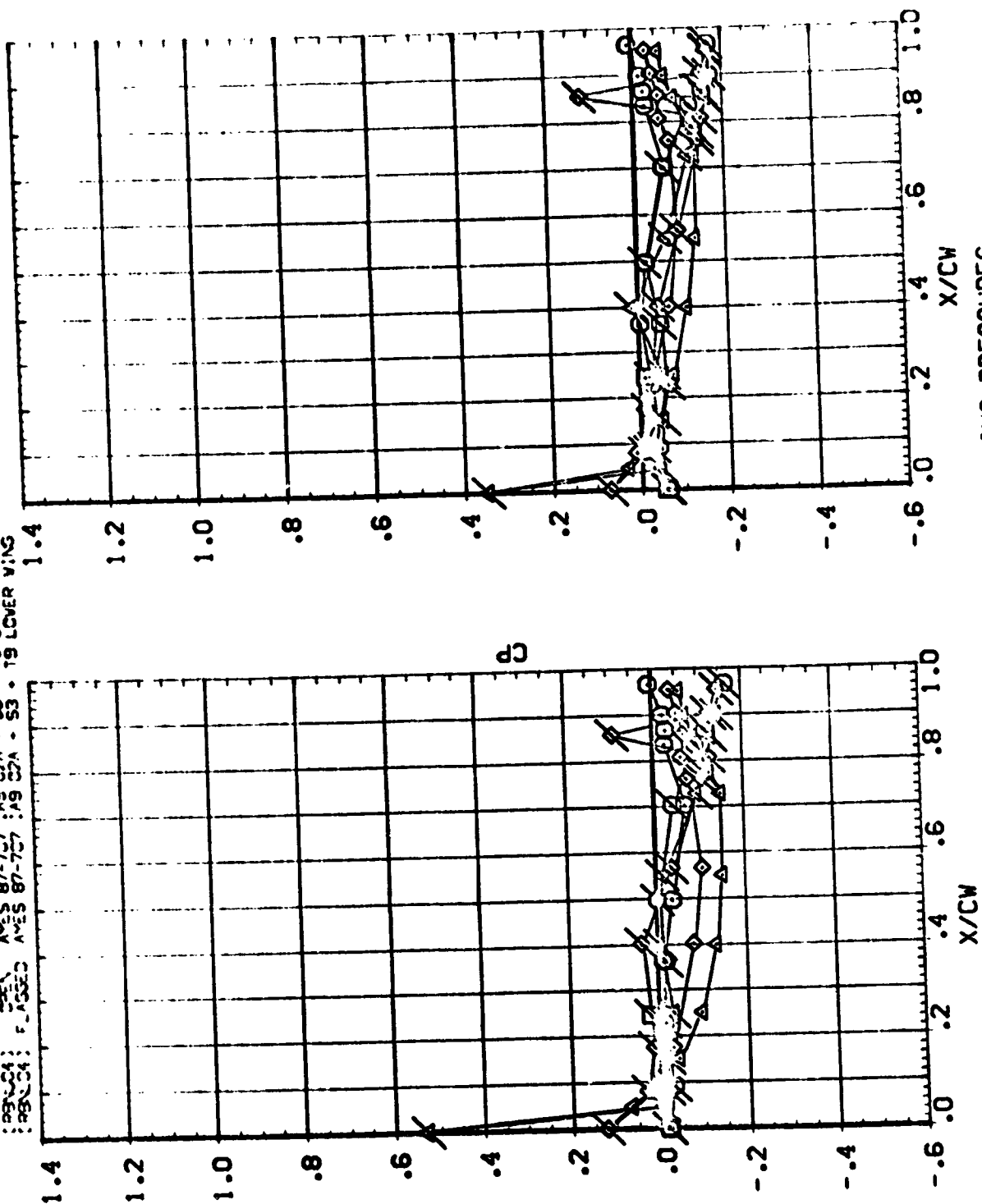
WAC
2.498

PARAMETRIC VALUES

ALPHA
-4.000
RUDER
.000
ELEVON
.000

DATA SET SWBC CONFIGURATION DESCRIPTION

REF CASE OPEN AYES 87-727 1A9 22A - 53 : 19 UPPER WING
REF CASE FLAPPED AYES 87-727 1A9 22A - 53 : 19 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETRIC VALUES

ALPHAT	-4.000	999.00
RUDDER	0.000	0.000
RUDDER	0.000	0.000

SYNCH. 1/34 .673 .78C .897

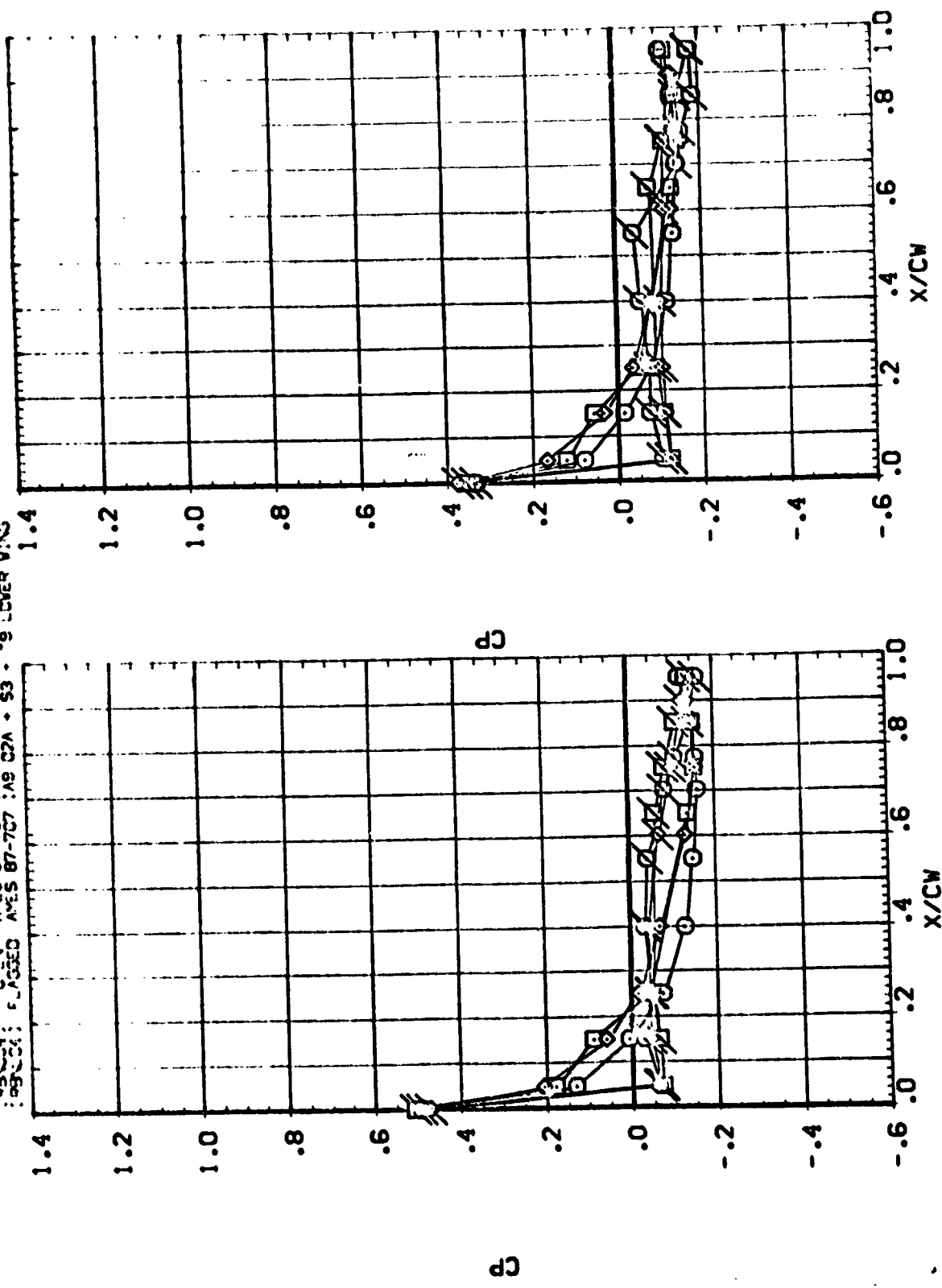
BETA 4.300 8.550

WACH 2.498

DATA SET: SYNCH. CONFIGURATION DESCRIPTION

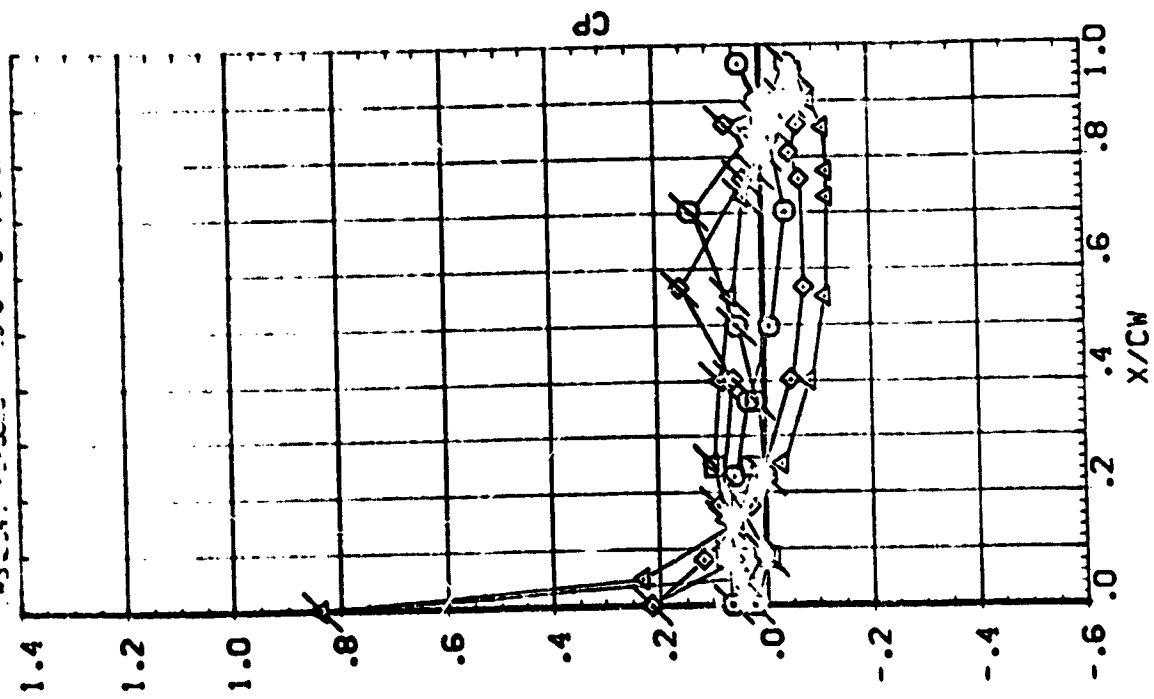
89-04 OPEN AMES 87-707 IAS C2A : S3 : T9 UPPER WING

89-04 FLAGGED AMES 87-707 IAS C2A : S3 : T9 LOWER WING

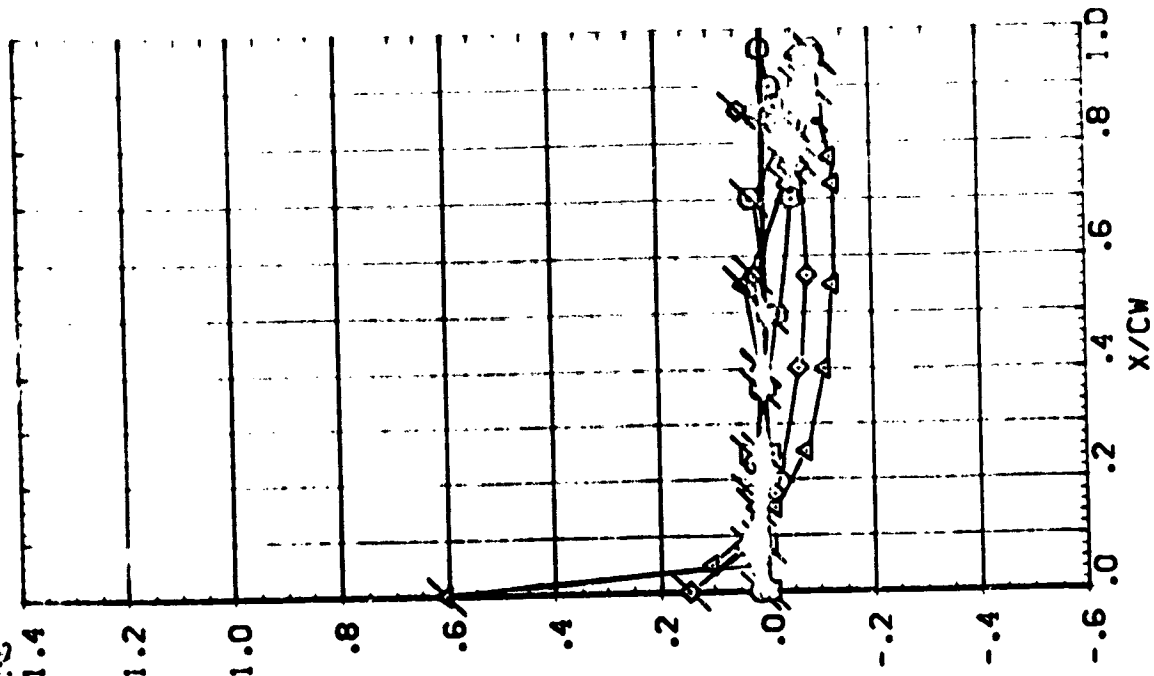


CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

2000
 2001
 2002
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[illegible][illegible]

	DATE	TIME	LOCATION	REMARKS
A-1-A	4.000	09:00		
B-1-B	4.000	09:00		
C-1-C	4.000	09:00		
D-1-D	4.000	09:00		



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETRIC VALUES

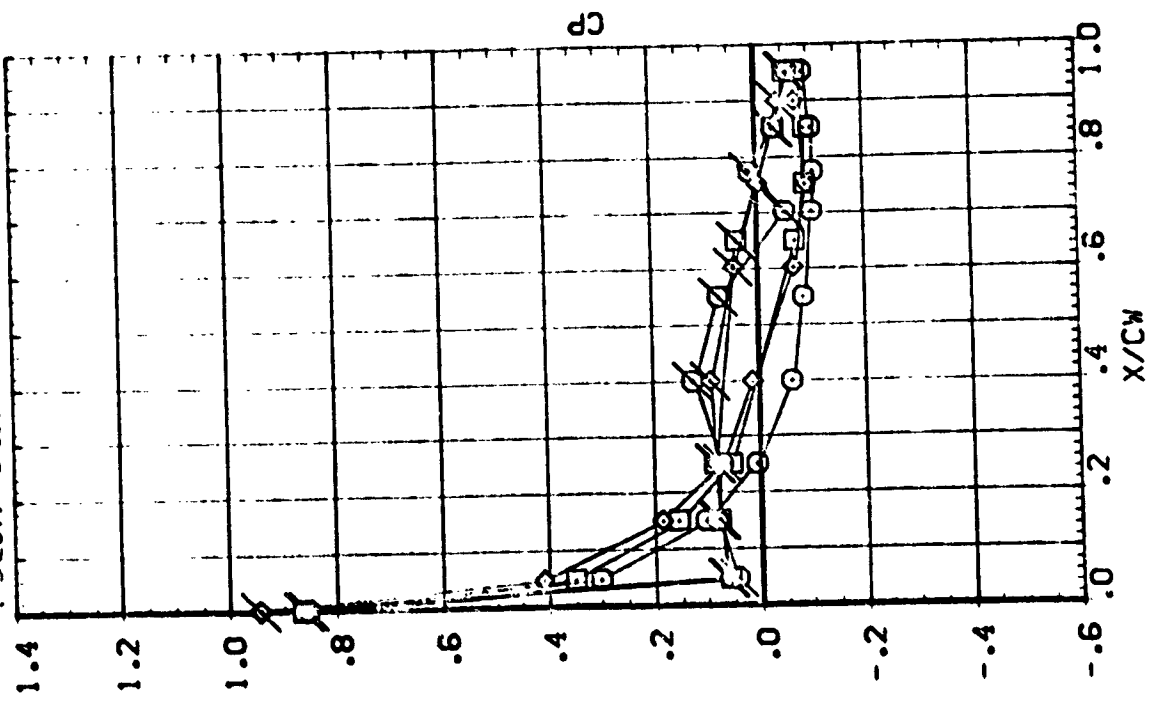
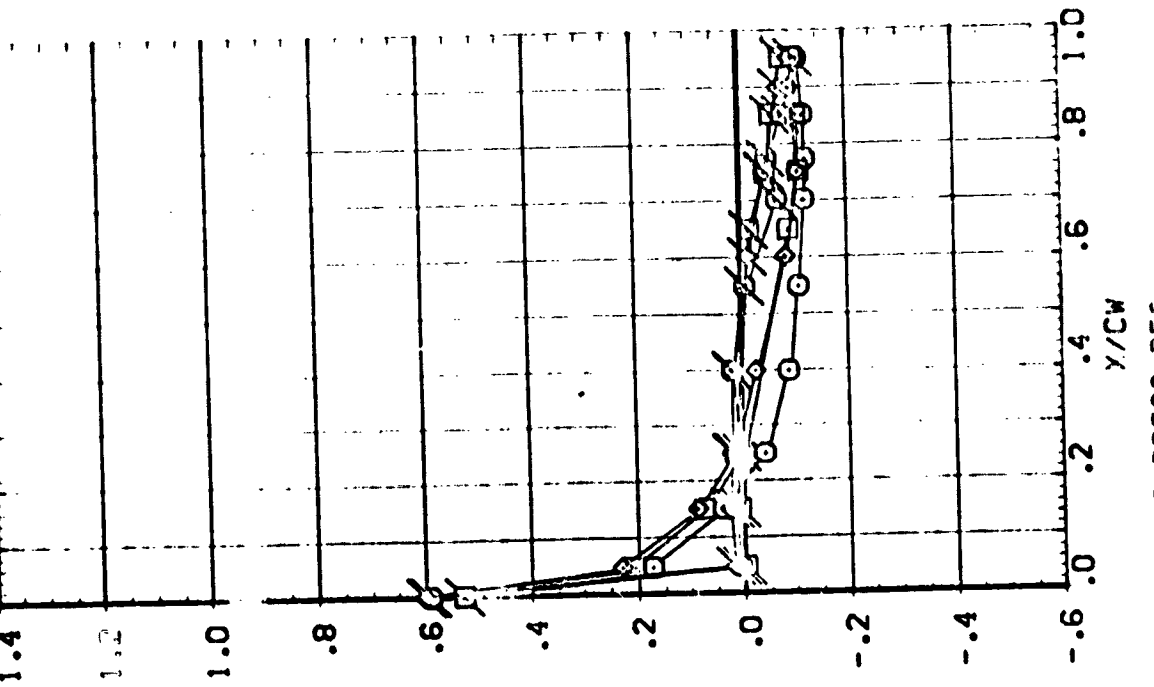
ALPHA	4.000	299.12	500
REYNOLDS	200000	1.000	1000
WING AREA	2.000	1.000	1000

ALPHA

2.000
2.500

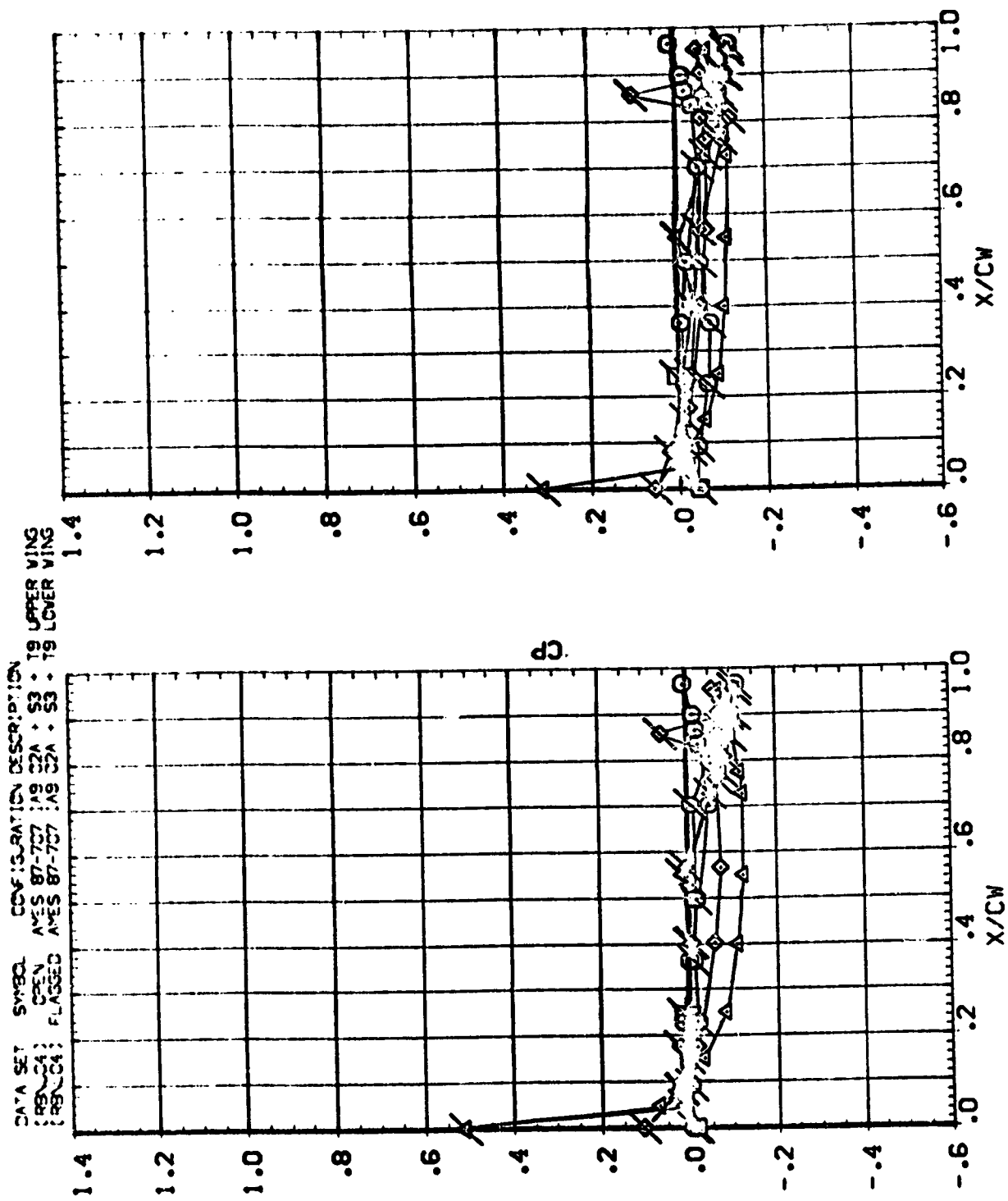
DATA SET SYMBOL CALCULATION DESCRIPTION

88-04	OPEN	AVES 87-757	AS 22A	S3	TS	UPPER WING
88-04	CLOSED	AVES 87-757	AS 22A	S3	TS	LOWER WING

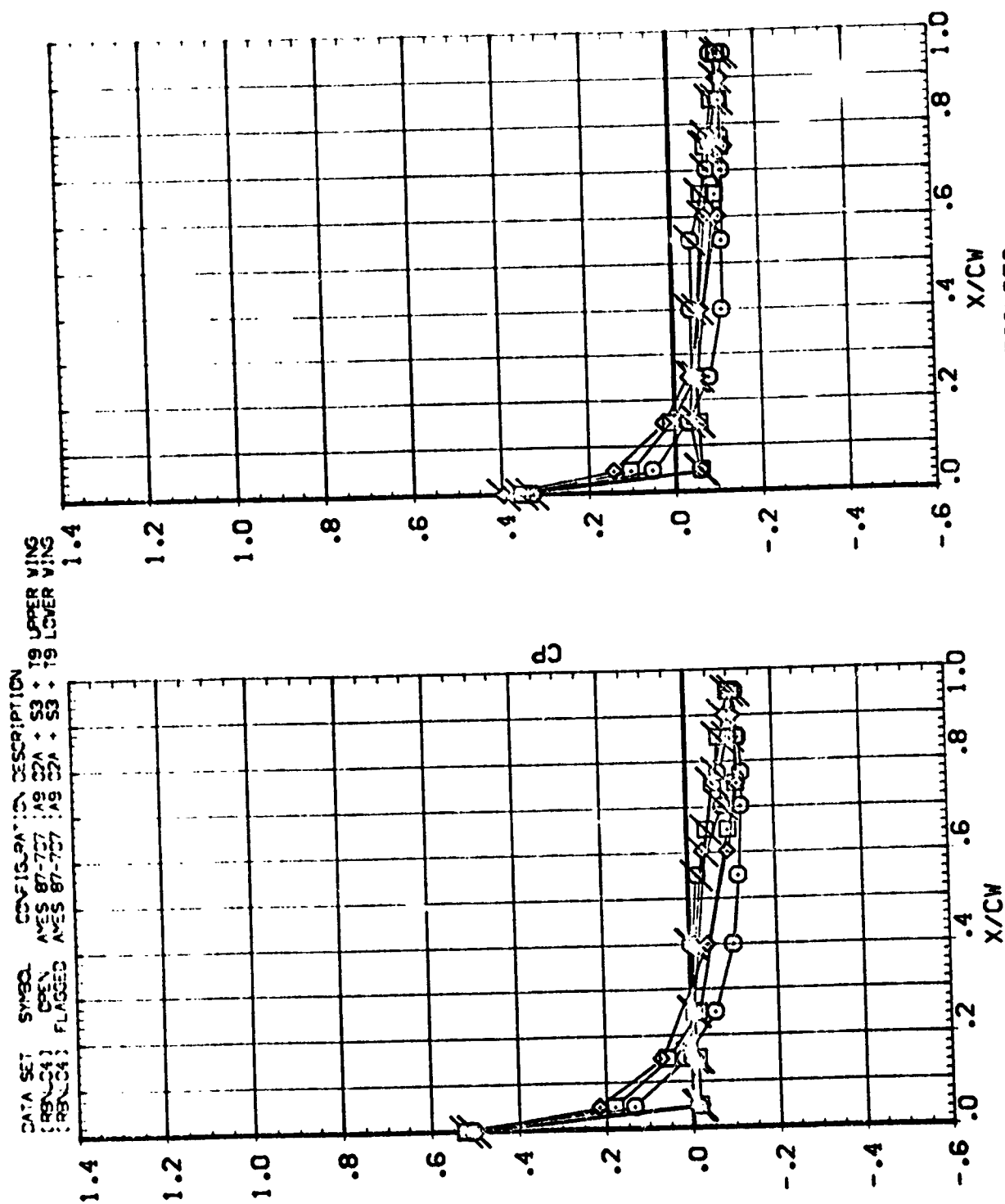


CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

1.11	4.36	1.11
.354	8.710	
.427		
.534		



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

[illegible]

CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

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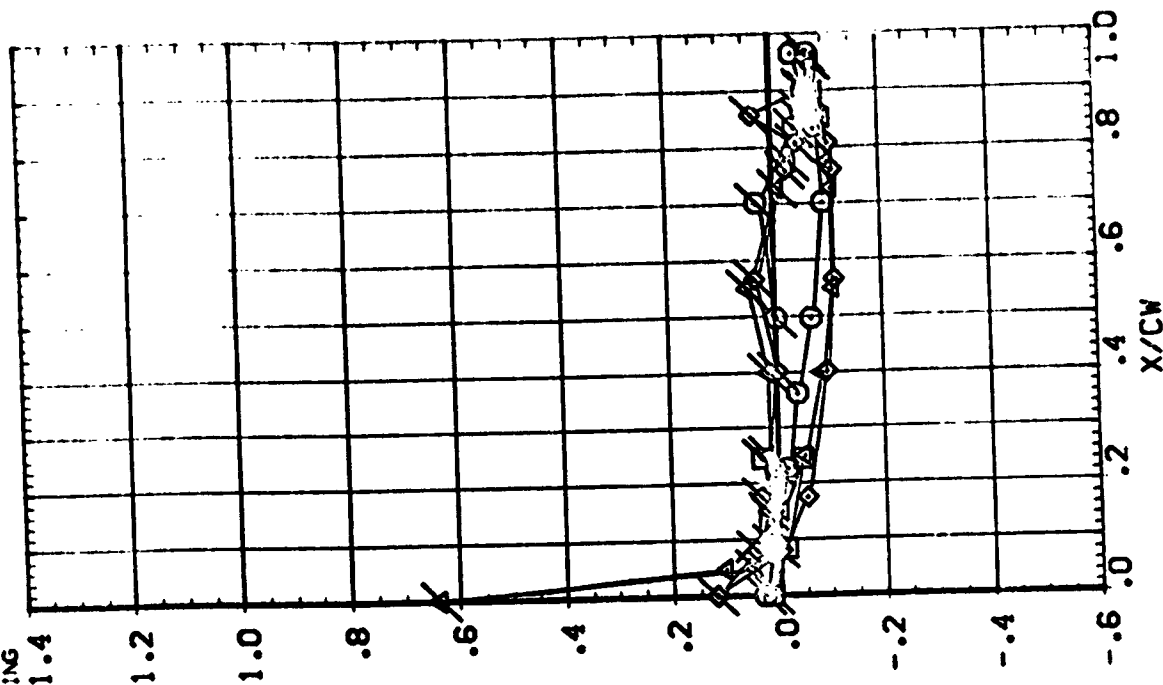
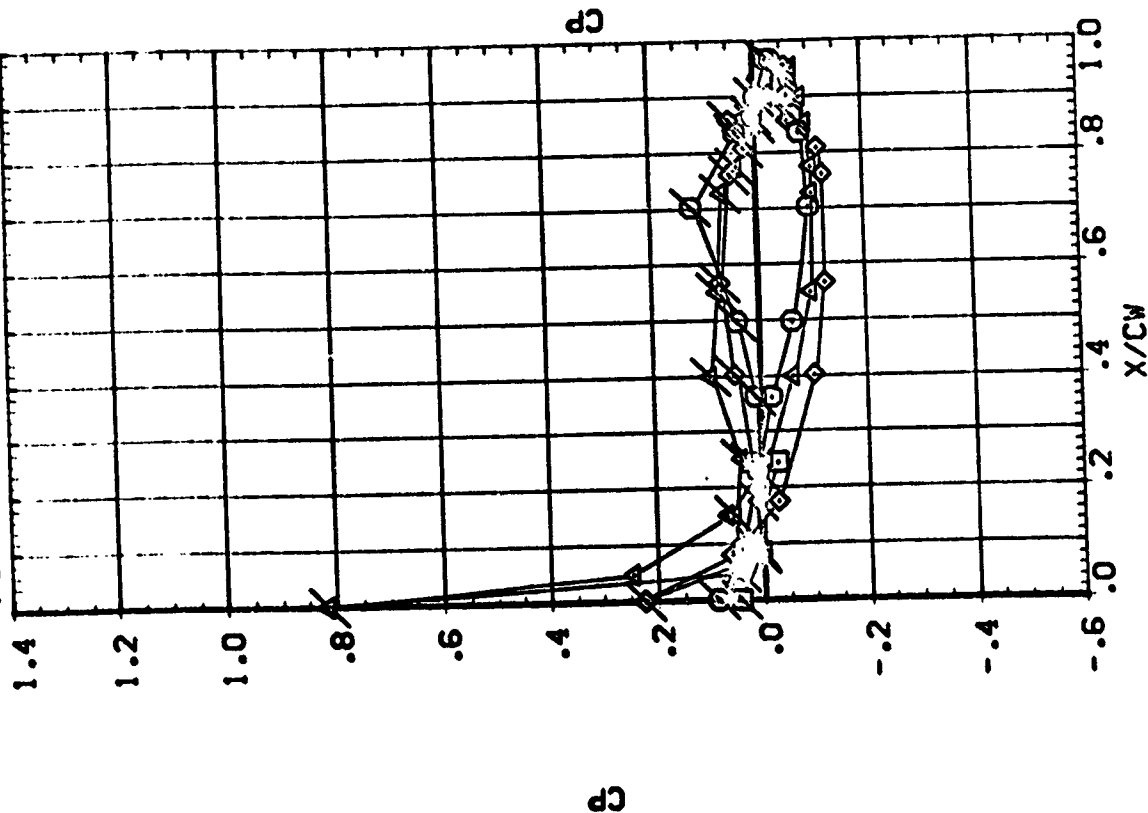
SYMB. V/β .789
 .364
 .427
 .534

BETAT -4.340
 2.260

MACH 3.507

PARAMETRIC VALUES
 ALPHAT -4.000
 RUDDER .000
 RUJLR .000
 .500
 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBL04) OPEN AYES 87-707 : A9 C2A + S3 + T9 UPPER WING
 (RBL04) FLAGGED AYES 87-707 : A9 C2A + S3 + T9 LOWER WING

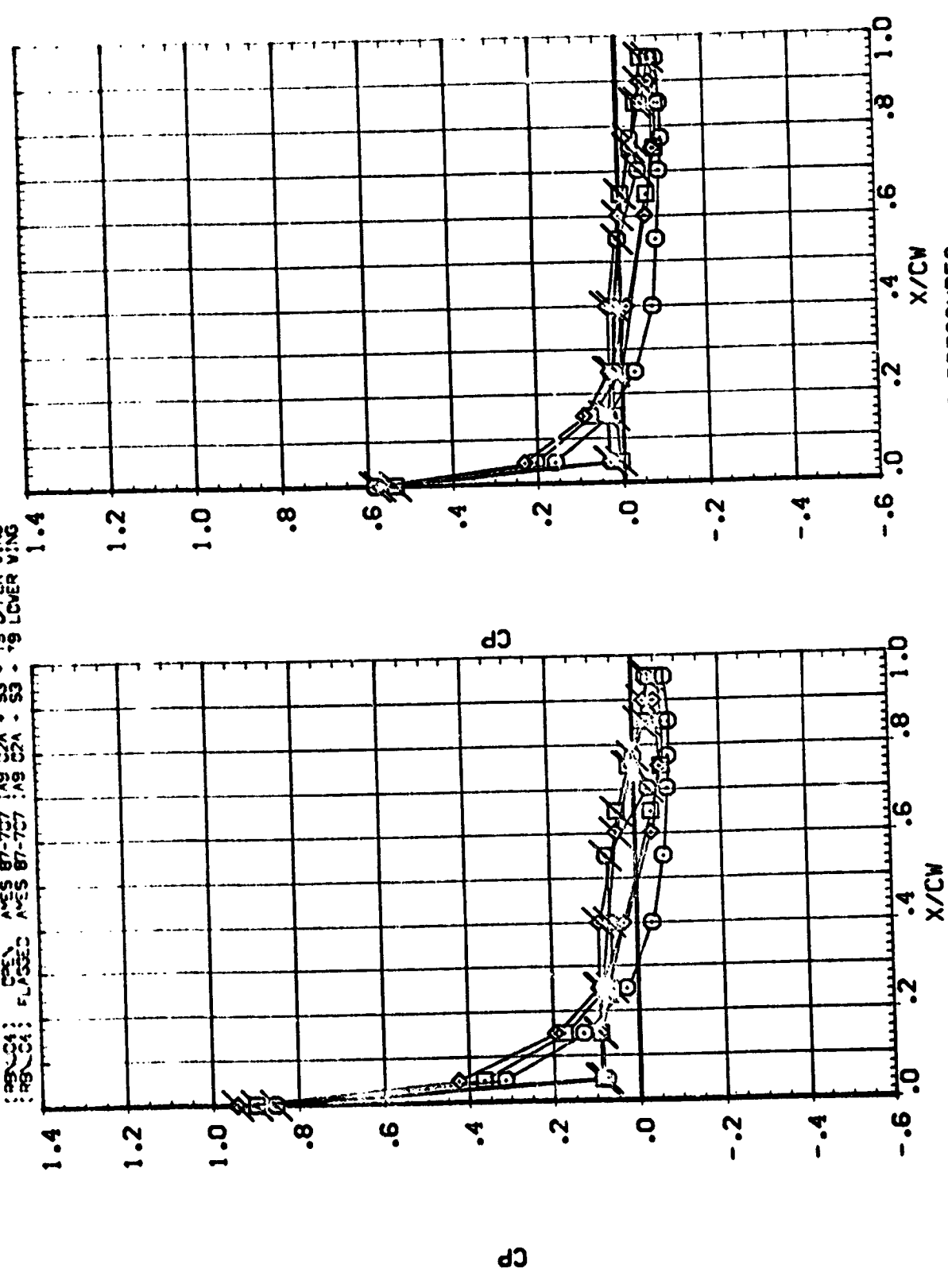


CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETRIC VALUES
 ALPHA: 0.000
 RUDER: 0.000
 ELEV: 0.000

SYMBOL: 0.573
 V/B: 0.780
 BEAT: 0.000
 W/C: 3.502
 0.340
 2.260

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 :R5004: OPEN ASES 87-707 :A9 C2A : S3 : 19 UPPER WING
 :R5004: FLASSED ASES 87-707 :A9 C2A : S3 : 19 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL
O
◇
△

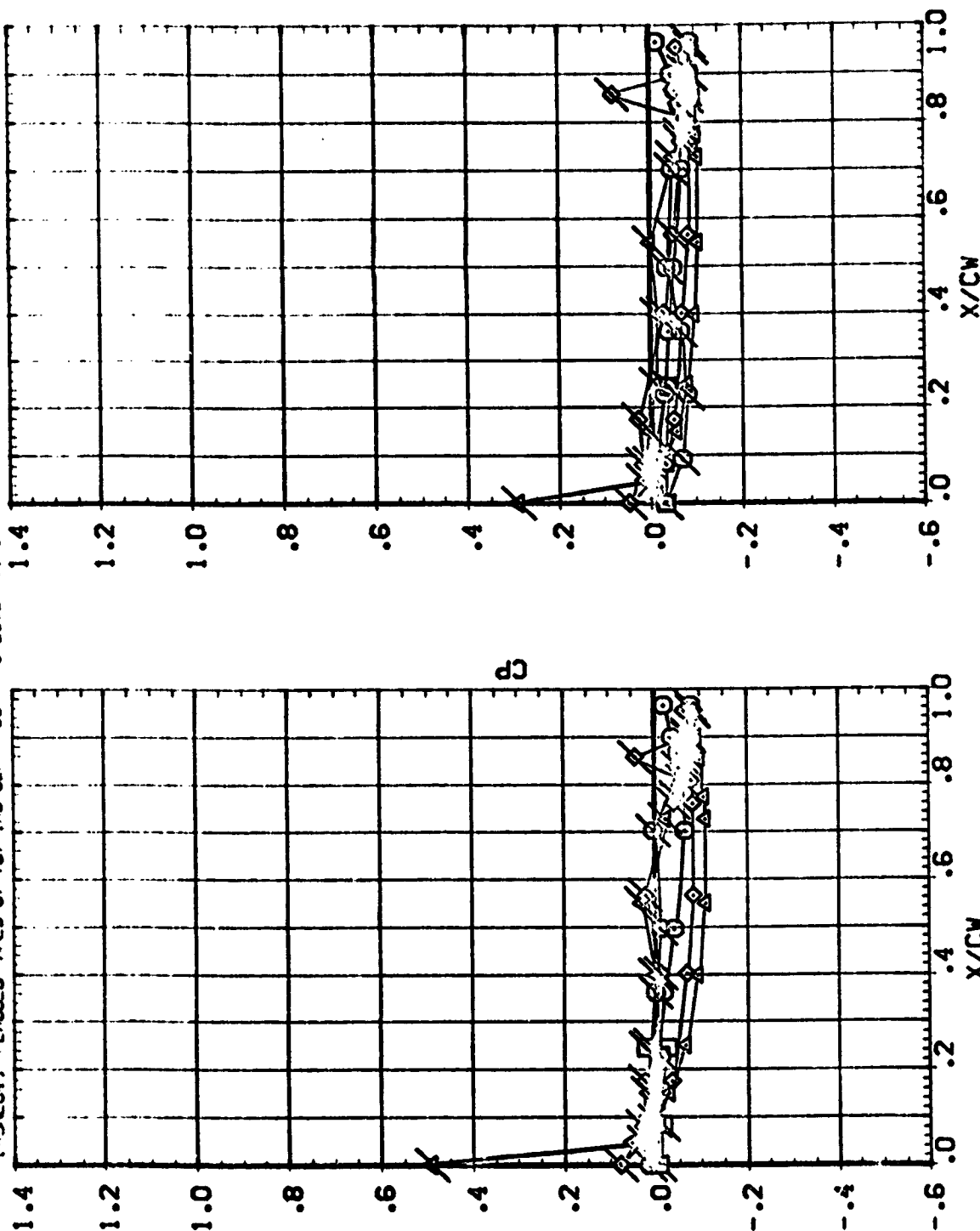
V/3V
.799
.364
.427
.534

BETA
4.460
8.870

MACH
3.502

PARAMETRIC VALUES
ALPHA
-4.000
RUDER
RUDER
ELEVON
-4.000
0.000
0.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(RSL04) OPEN ASES 87-707 (A9 C2A - S3 : T9 UPPER WING
(RSL04) FLASSED ASES 87-707 (A9 C2A - S3 : T9 LOWER WING



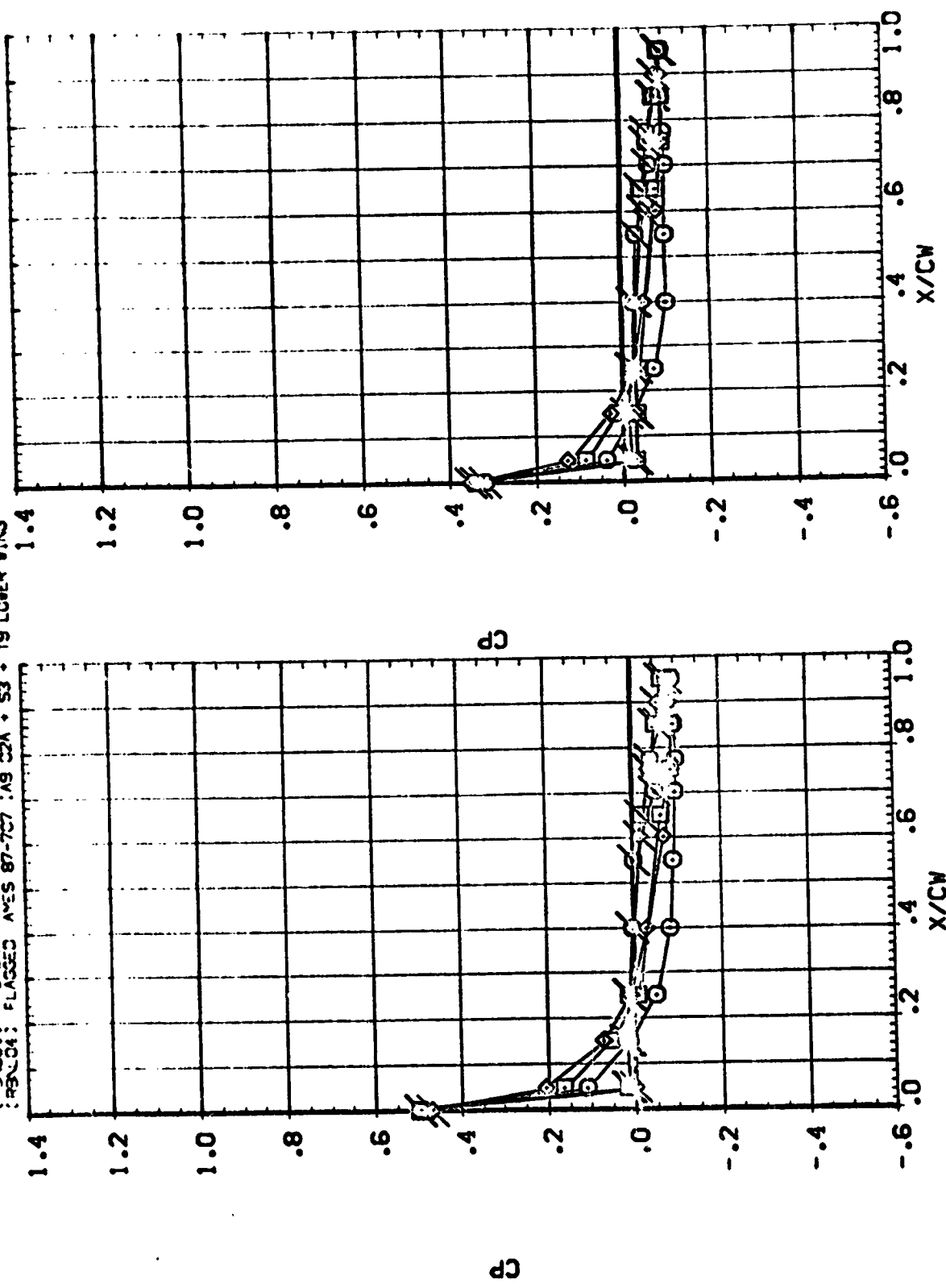
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETRIC VALUES
 -4.000 ORBINE
 .000 ELEVON
 .000

ALPHA
 RUDER
 RUDDER

SYMBOL Y/BV BETA WACH
 .573 4.460 3.502
 .780 8.870
 .887

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (P8L04) OPEN ASES 87-707 : A9 C2A : S3 : 19 UPPER WING
 (P8L04) FLAGGED ASES 87-707 : A9 C2A : S3 : 19 LOWER WING



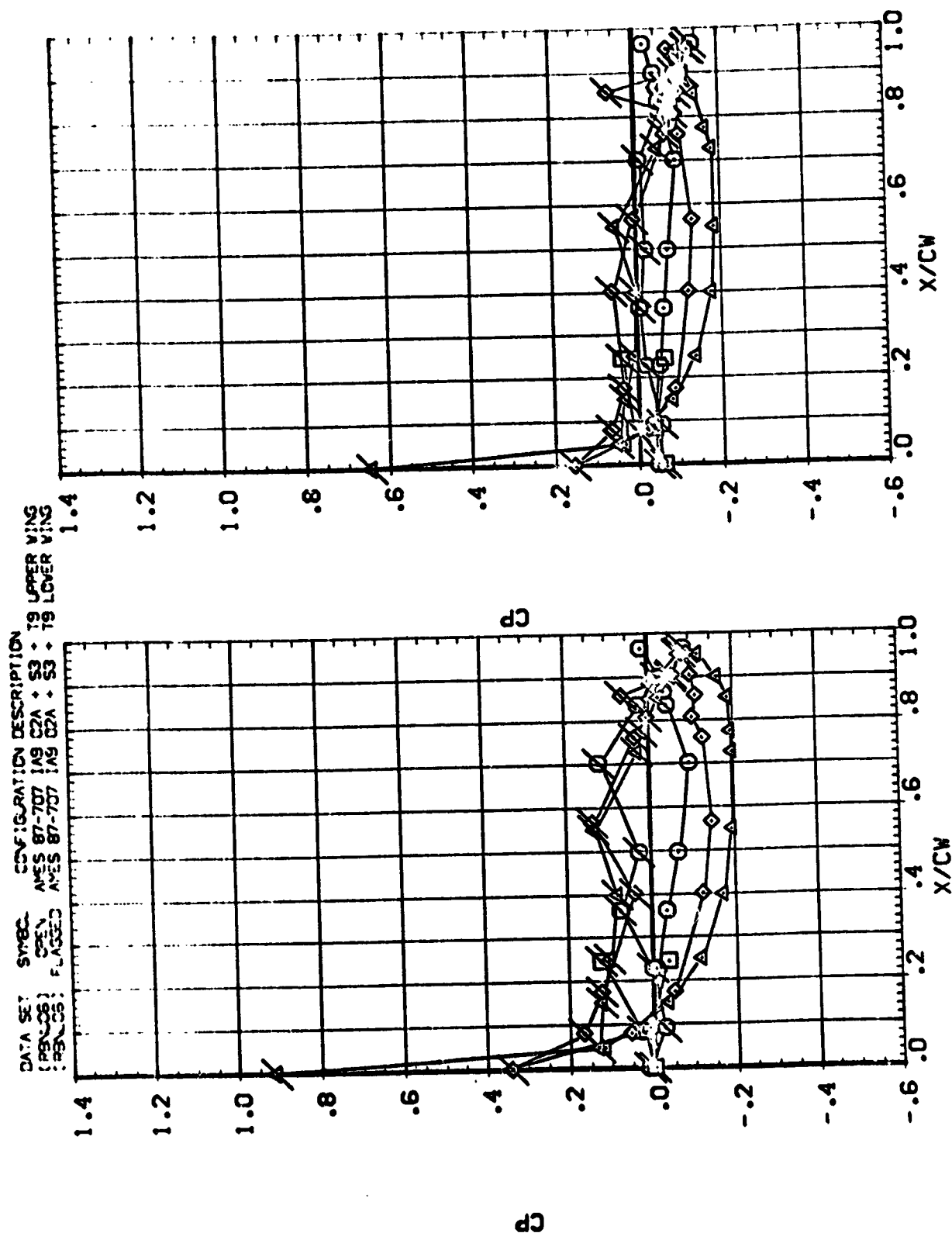
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETRIC VALUES

ALPHAT	.000	ORBIT	.500
RUDER	.000	ELEVON	.000
RUDLR	.000		

SYMBOL V/BW BETAT WAC

.299	-4.190	2.498
.364	2.170	
.477		
.534		

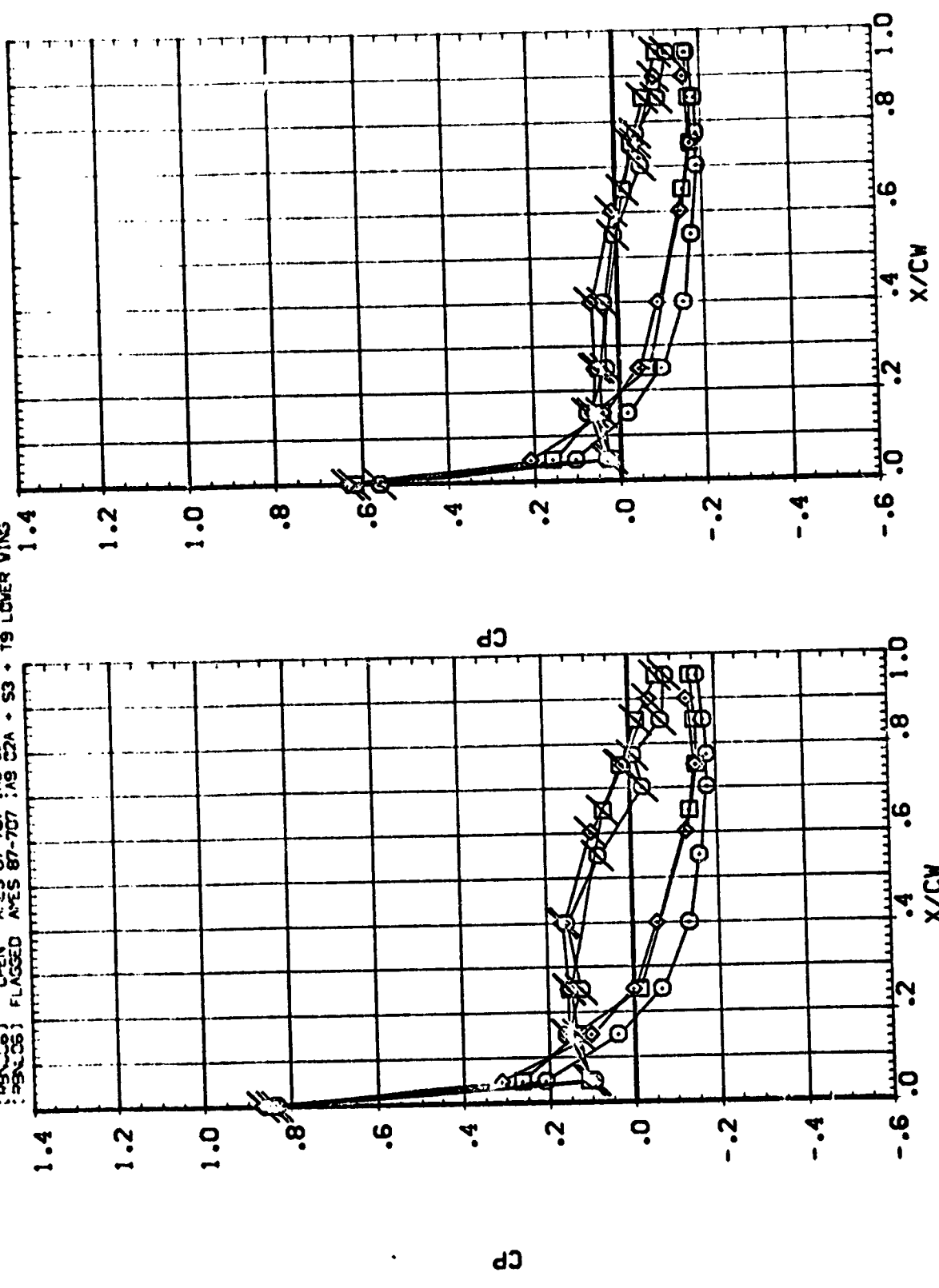


CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETER VALUES
 ALPHA1 .000 999.0
 RUDDER .000 999.0
 RUDER .000 999.0

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (P9N-06) OPEN AMES 87-707 (A9 C2A + S3 + T9 UPPER WING
 (P9N-06) FLAGGED AMES 87-707 (A9 C2A + S3 + T9 LOWER WING

SYMPC V/34 BETAT MACH
 .573 -4.190 2.498
 .780 2.170
 .997



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

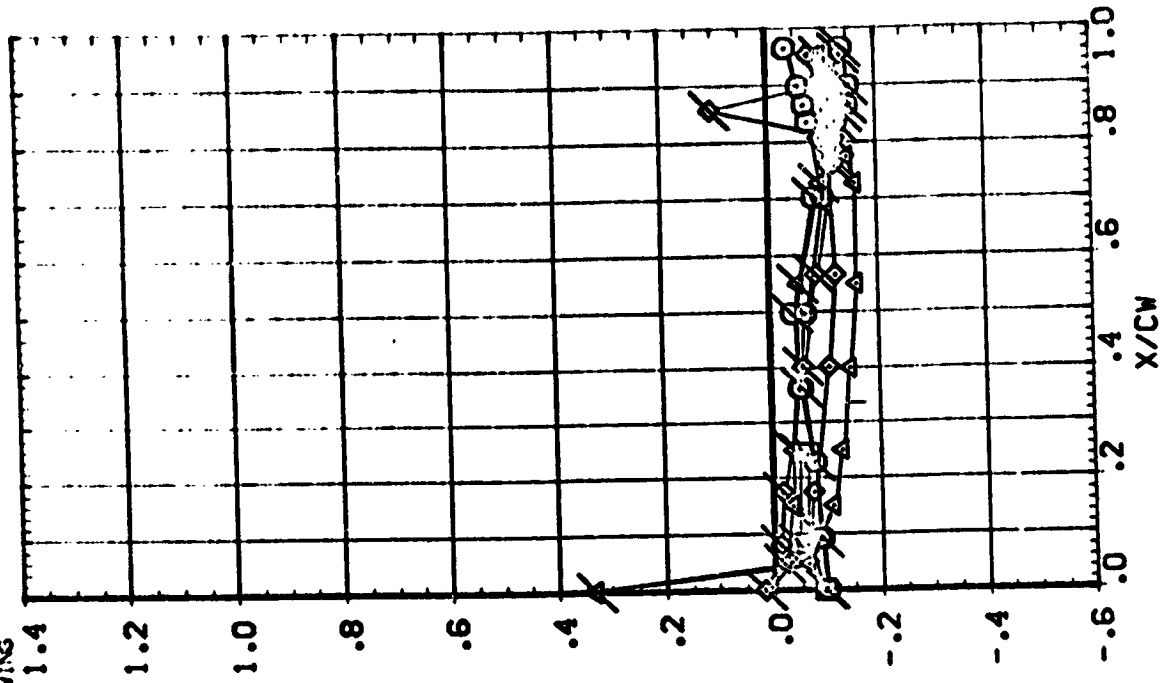
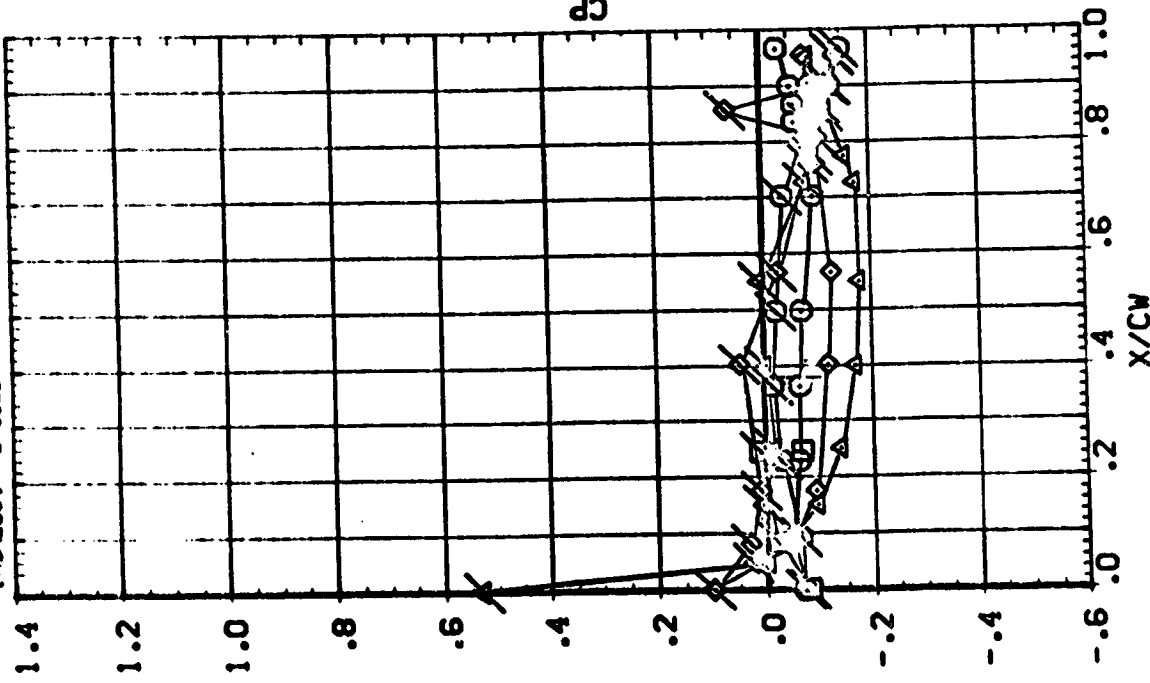
SYNCH. Y/BV .799
 .364
 .427
 .534

BETAT 4.29C
 8.54C

WAC- 2.498

PARAMETRIC VALUES
 ALPHAT .000
 RODER .000
 RUDER .000
 CDBINC .500
 ELEVEN .000

DATA SET SYMBO. CONFIGURATION DESCRIPTION
 (RBLUG) OPEN AYES 87-707 1A9 C2A : S3 : 19 UPPER VING
 (RBLUG) FLAGGED AYES 87-707 1A9 C2A : S3 : 19 LOWER VING

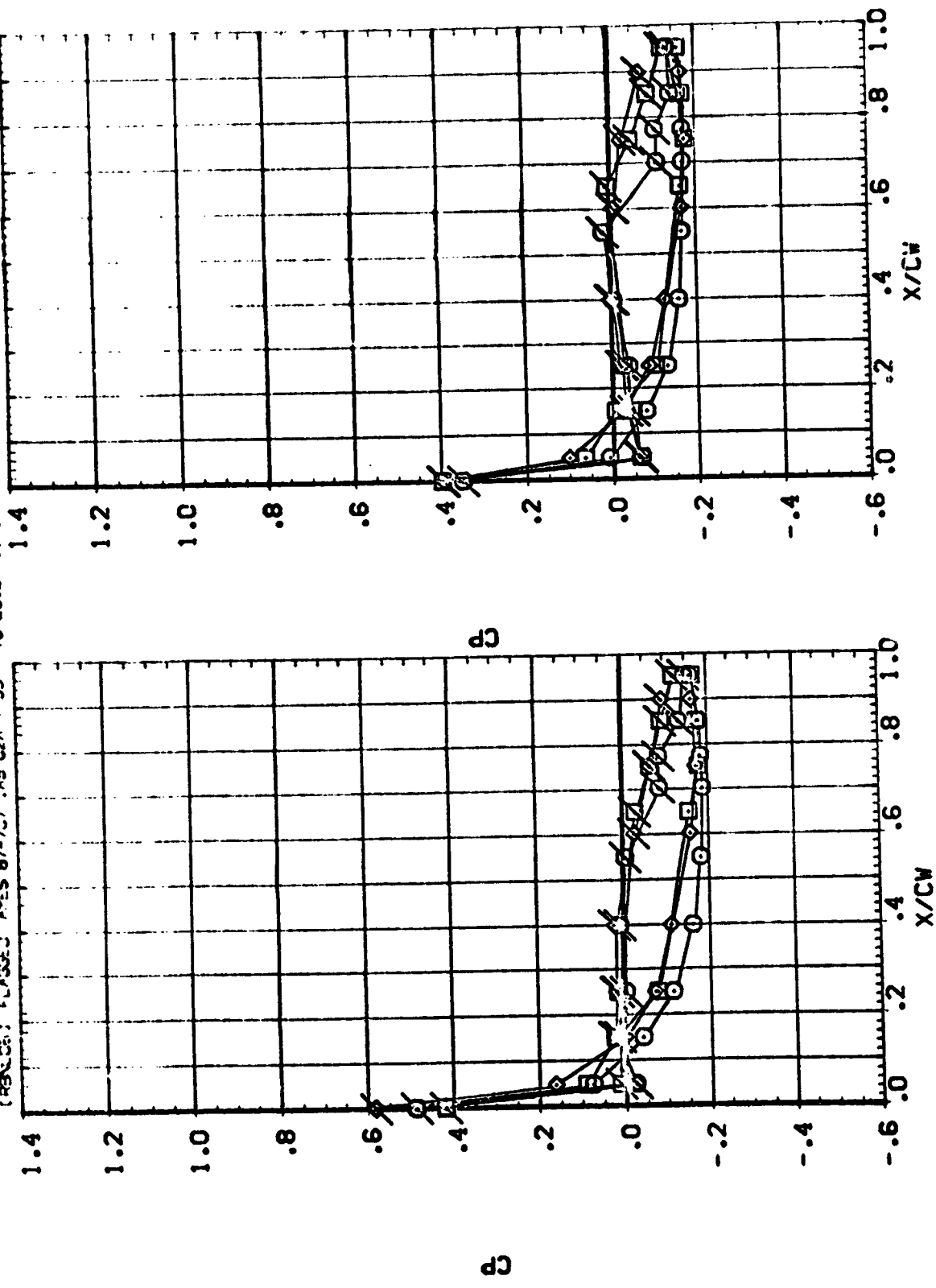


CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL: 1/2" BE "A" WAC
 .673 4.290 2.498
 .780 8.540
 .887

PARAMETRIC VALUES
 ALPHA: .000
 RUDER: .000
 RUDER: .000
 RUDER: .000

DATA SET: SYMBOL: CONFIGURATION DESCRIPTION
 (RUCR) OPEN: ASES 87-707: A9 C2A + S3 + 19 UPPER WING
 (RUCR) FLASSED: ASES 87-707: A9 C2A + S3 + 19 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

S-MPC
()
()
()

V/34
.299
.364
.427
.534

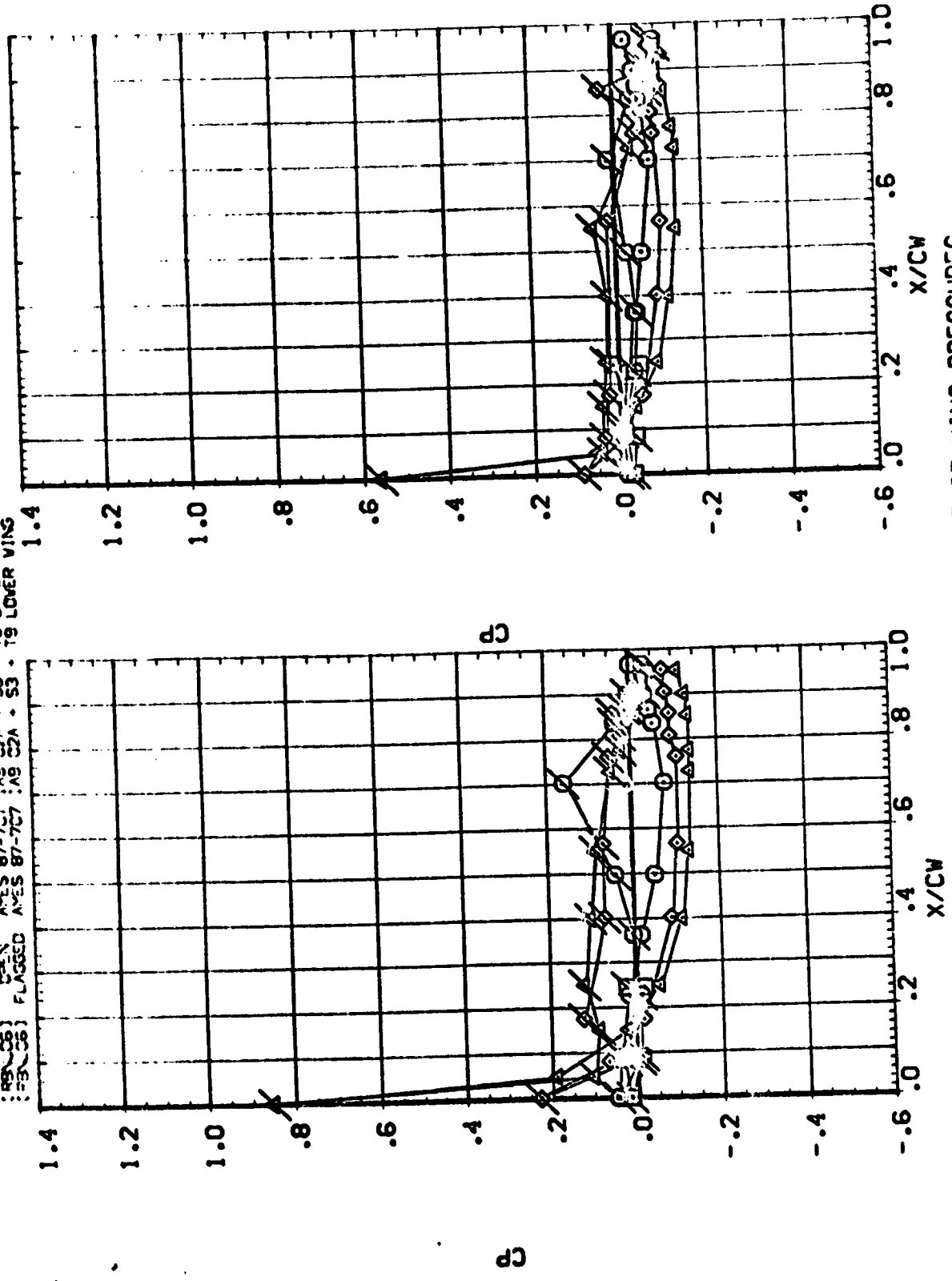
BETA
-4.770
2.010

MACH
2.999

ALPHA
RUDER
RUDER

PARAMETER VALUES
1000 0.000
1000 0.000
1000 0.000
1000 0.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
[RB-08] OPEN AYES 87-707 : AG CDA : S3 : T9 UPPER WING
[RB-08] FLAGGED AYES 87-707 : AG CDA : S3 : T9 LOWER WING



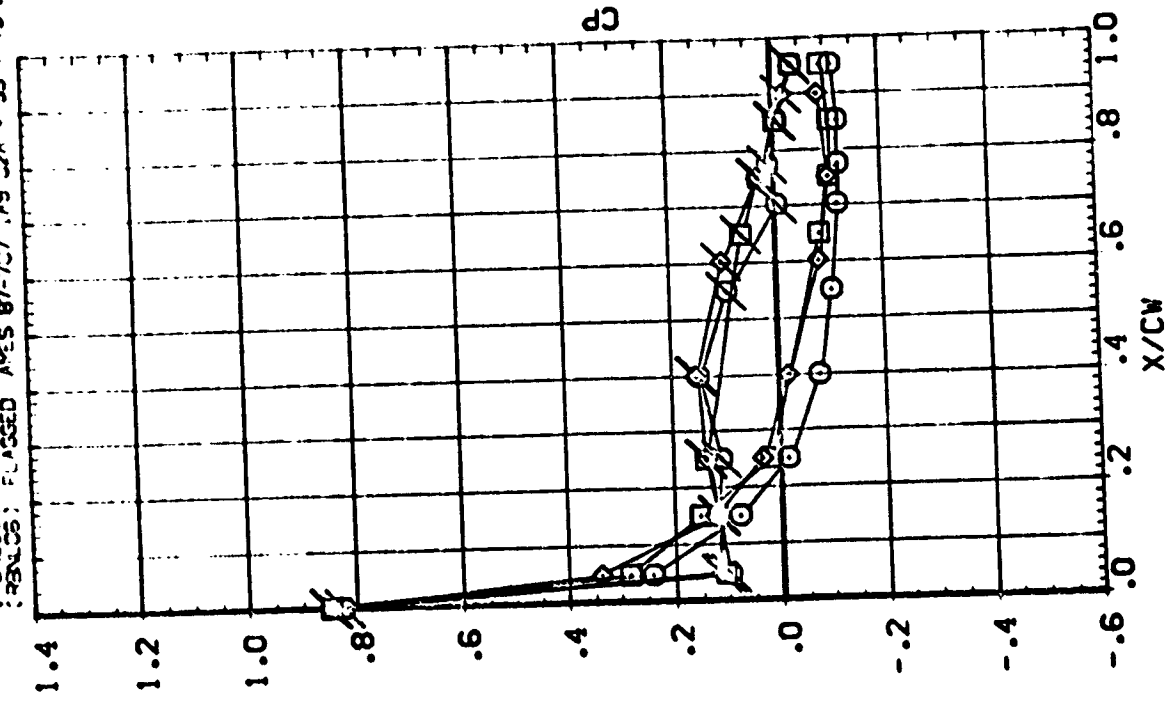
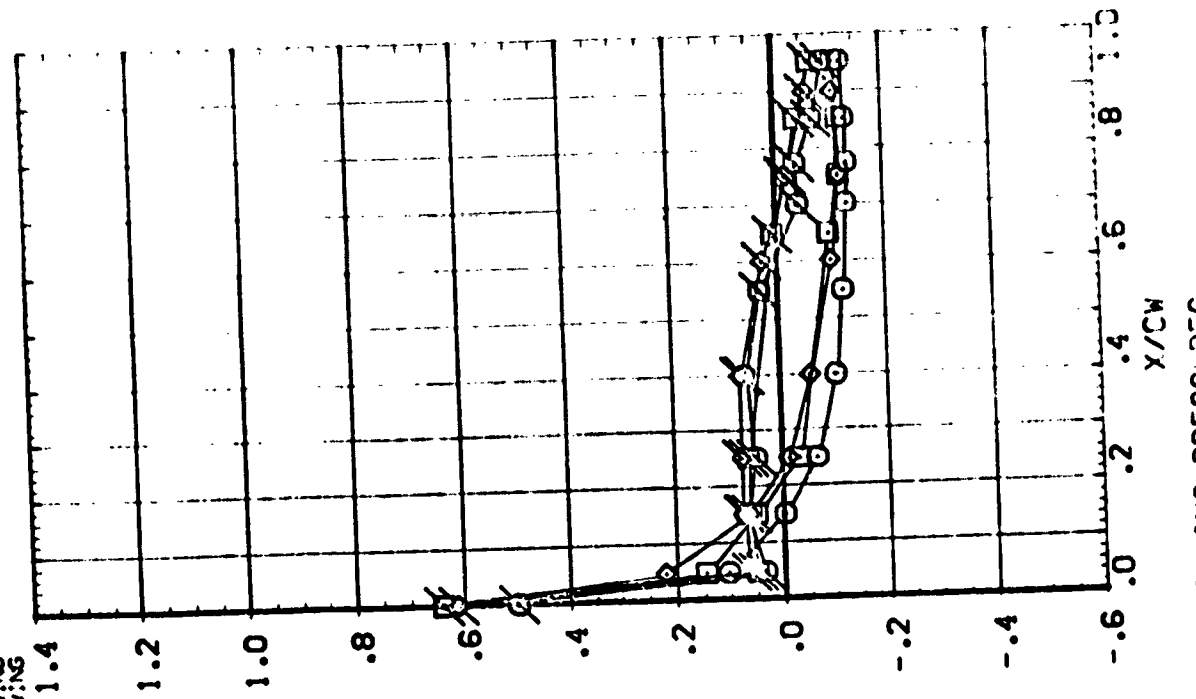
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

ROCKEY
RUELL

1.04
.573
.78C
.887

1.04
2.999
2.210

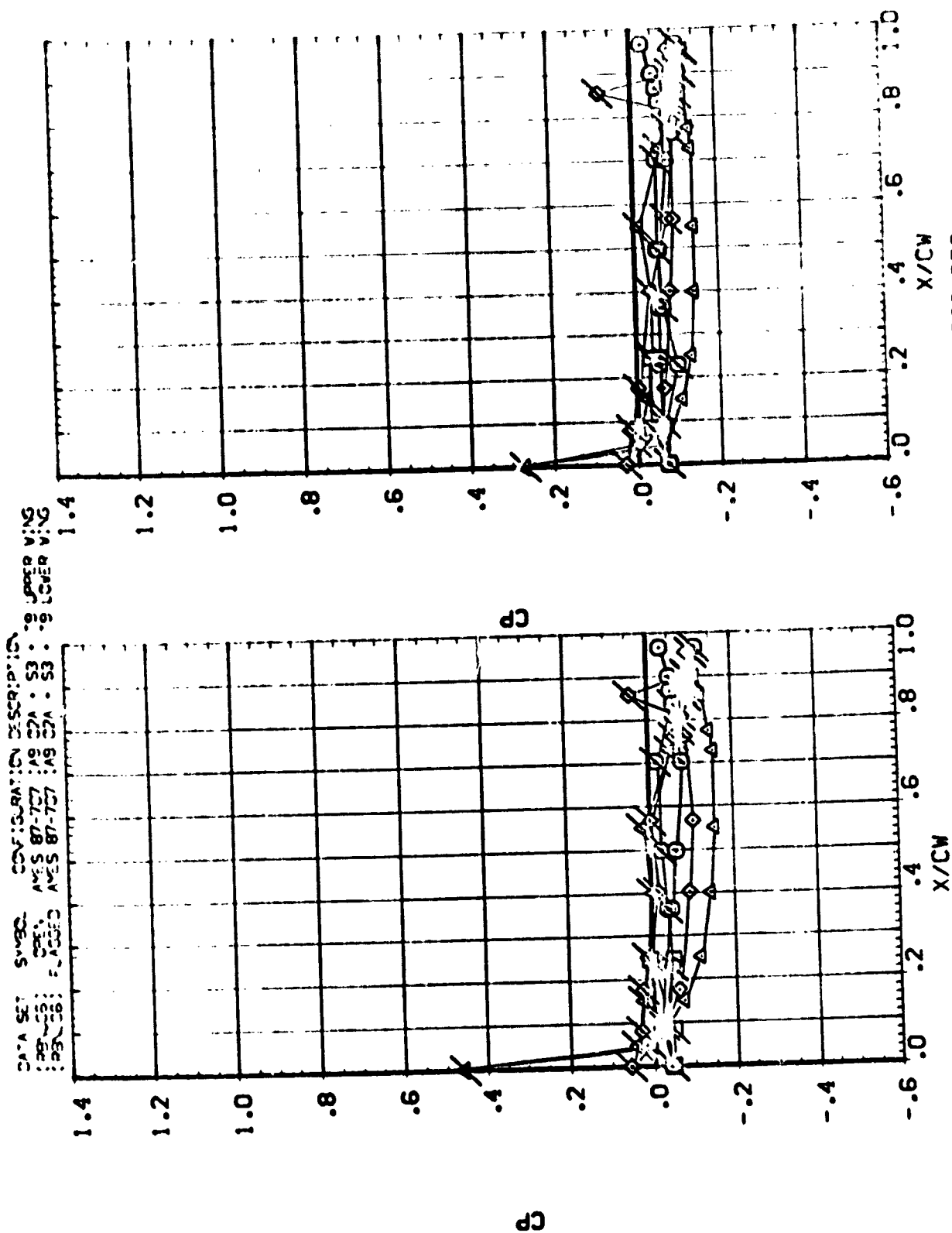
DATA SET: SYMBOL CONFIGURATION DESCRIPTION
 : 88-103 : OPEN : ASES 87-707 : A9 C2A : S3 : T9 UPPER WING
 : 88-103 : FLAGGED : ASES 87-707 : A9 C2A : S3 : T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

3.1	2.000
4.37	
8.60	

ALPHA	~~~~~	SECRET
BRIER	~~~~~	SECRET
PJL	~~~~~	SECRET



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL Y/B₁

○ .299

◇ .364

△ .427

△ .534

BE₁A₁°

-4.340

2.760

MACH

3.502

PARAMETRIC VALUES

ALPHAT

RJOOER

RJOOER

.500

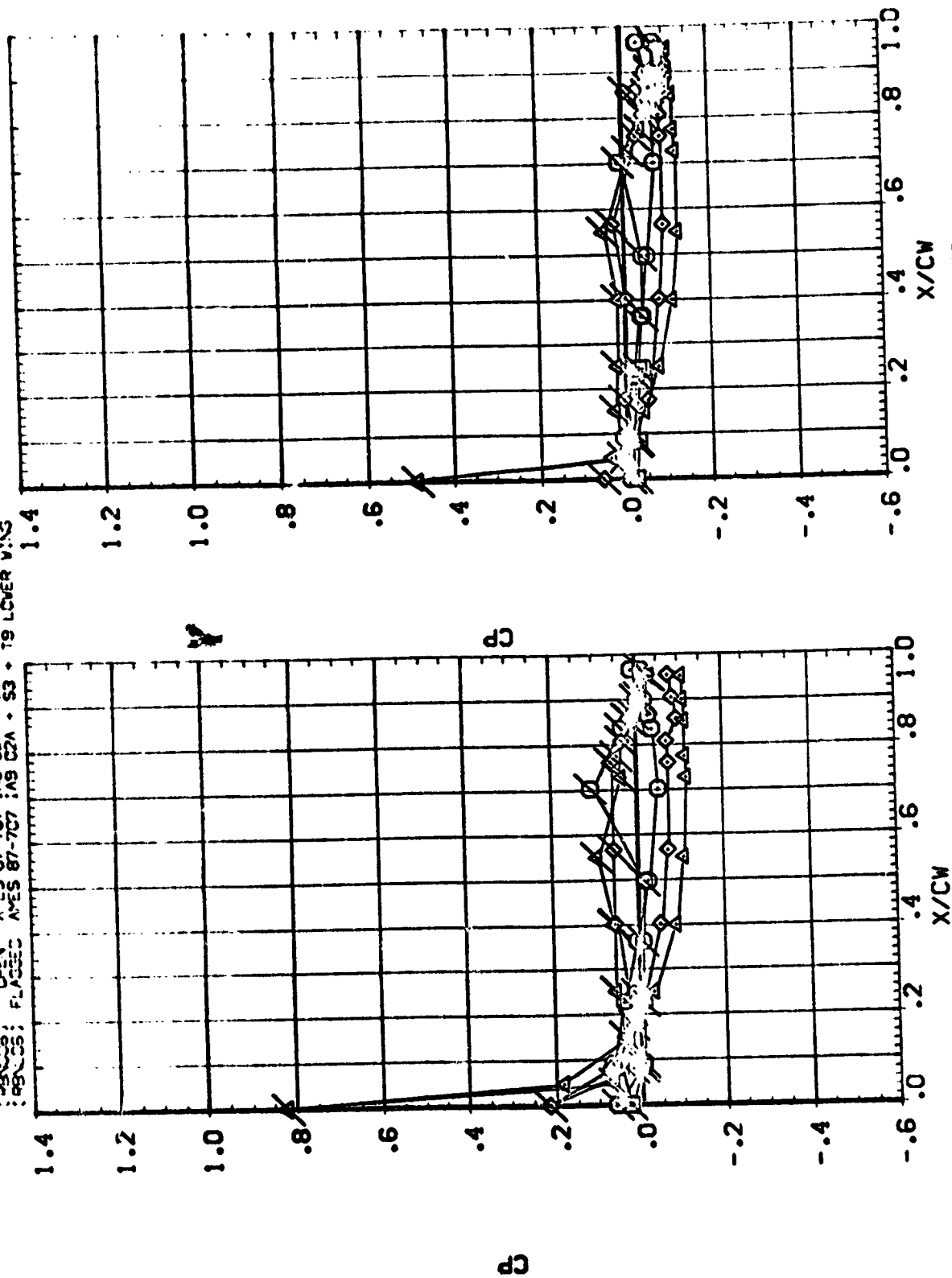
.500

.500

DATA SET SYMBOL CONFIGURATION DESCRIPTION

880000 OPEN AYES 87-707 1A9 C2A + S3 + 19 UPPER WING

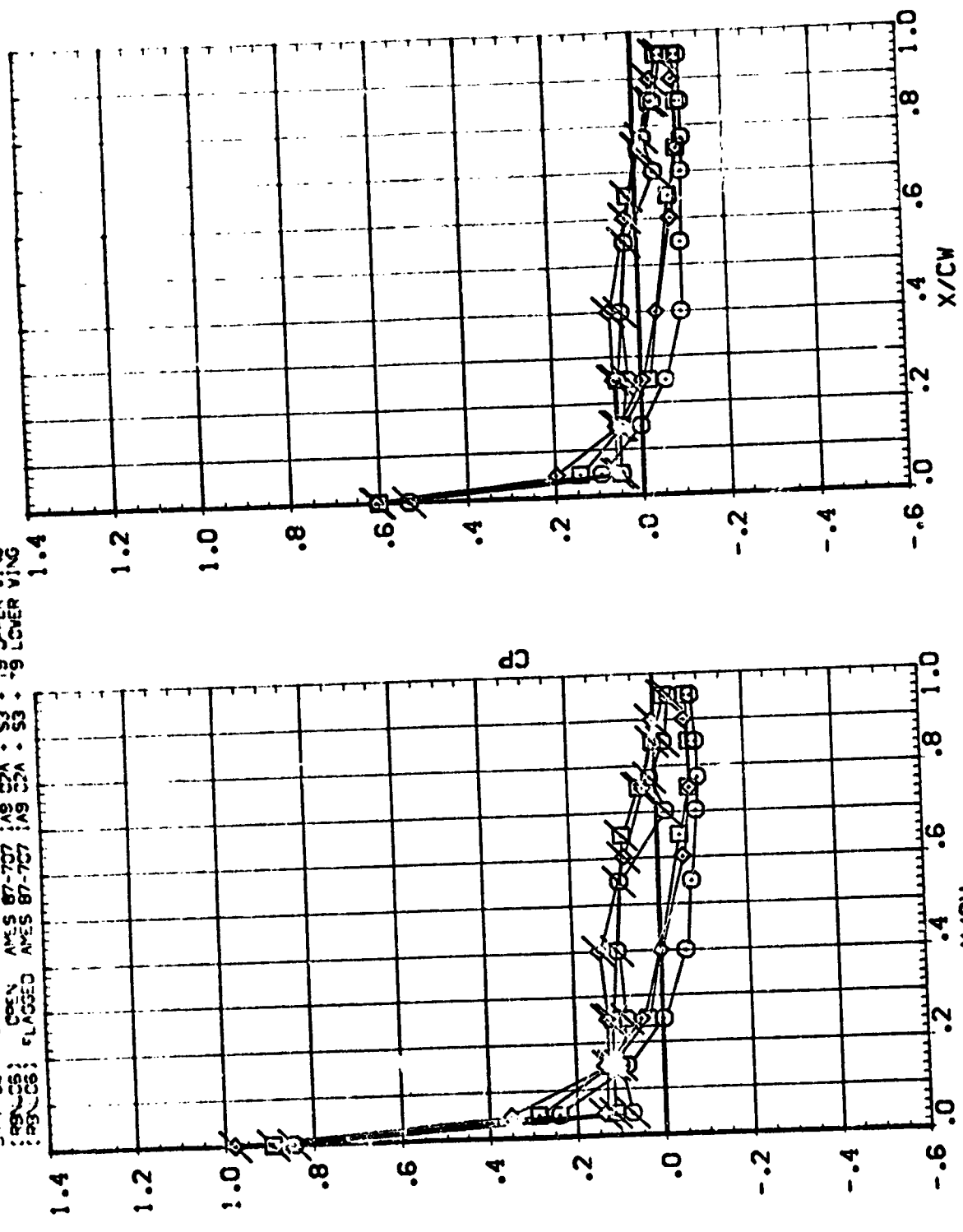
880000 FLANGED AYES 87-707 1A9 C2A + S3 + 19 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

Symbol	Value
500000	3.502
100000	-4.342
50000	2.760
10000	.673
5000	.780
1000	.887

DATA SET	SYMBOL	CONFIGURATION	DESCRIPTION
00000005	COIN	AVES 87-707	1A9 02A * 53 * 19 UPPER VING
00000006	FLASGED	AVES 87-707	1A9 02A * 53 * 19 LOWER VING

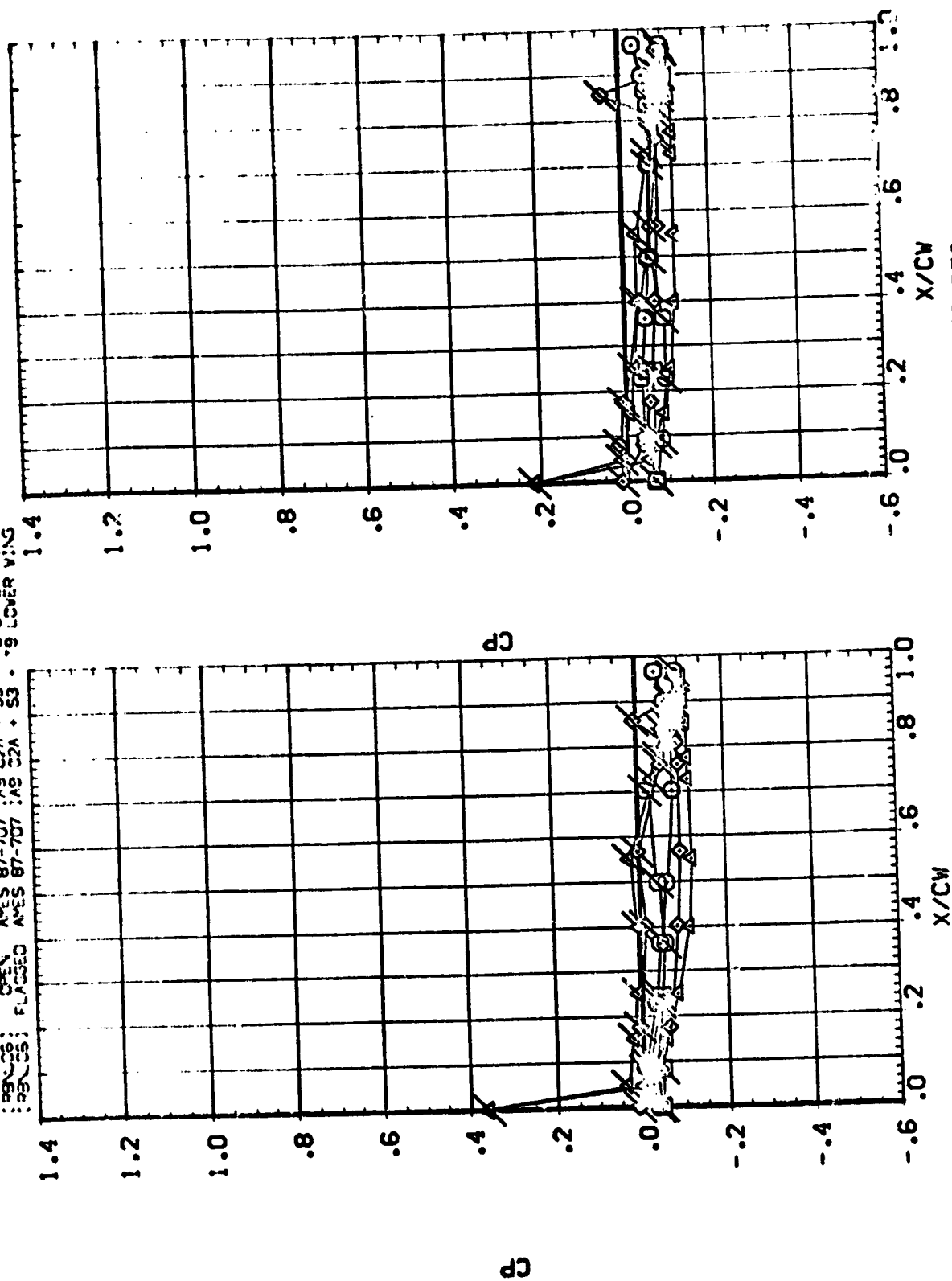


CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

BE: A	WAC
4.45C	3.502
8.05C	

DATE: 10-1-55
PAGE: 10-1-55

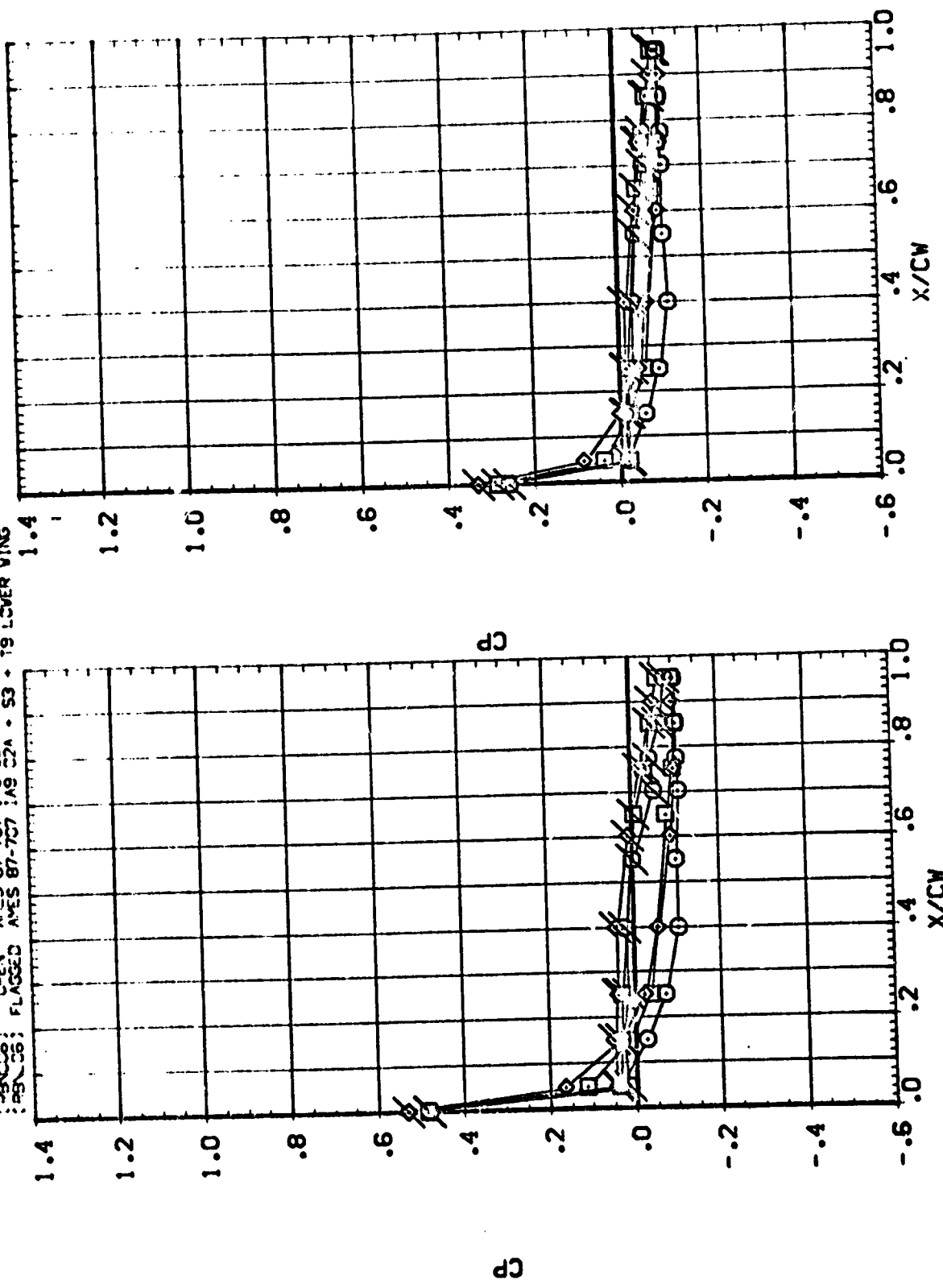
DATA SET	SUBSET	CONFIGURATION DESCRIPTION
OPEN	YES	87-707 : A9 C7A : S3 : '9 UPPER VING
FLANGED	YES	87-707 : B9 C7A : S3 : '9 LOWER VING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL: α β γ δ ϵ ζ η θ ι κ λ μ ν ξ \omicron π ρ σ τ υ ϕ χ ψ ω
 1/2 α β γ δ ϵ ζ η θ ι κ λ μ ν ξ \omicron π ρ σ τ υ ϕ χ ψ ω
 .573 4.450 3.502
 .18C 8.852
 .087

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 :PBNL08: OPEN ASES 87-707 :A9 22A + S3 + 19 UPPER WING
 :PBNL08: FLANGED ASES 87-707 :A9 22A + S3 + 19 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

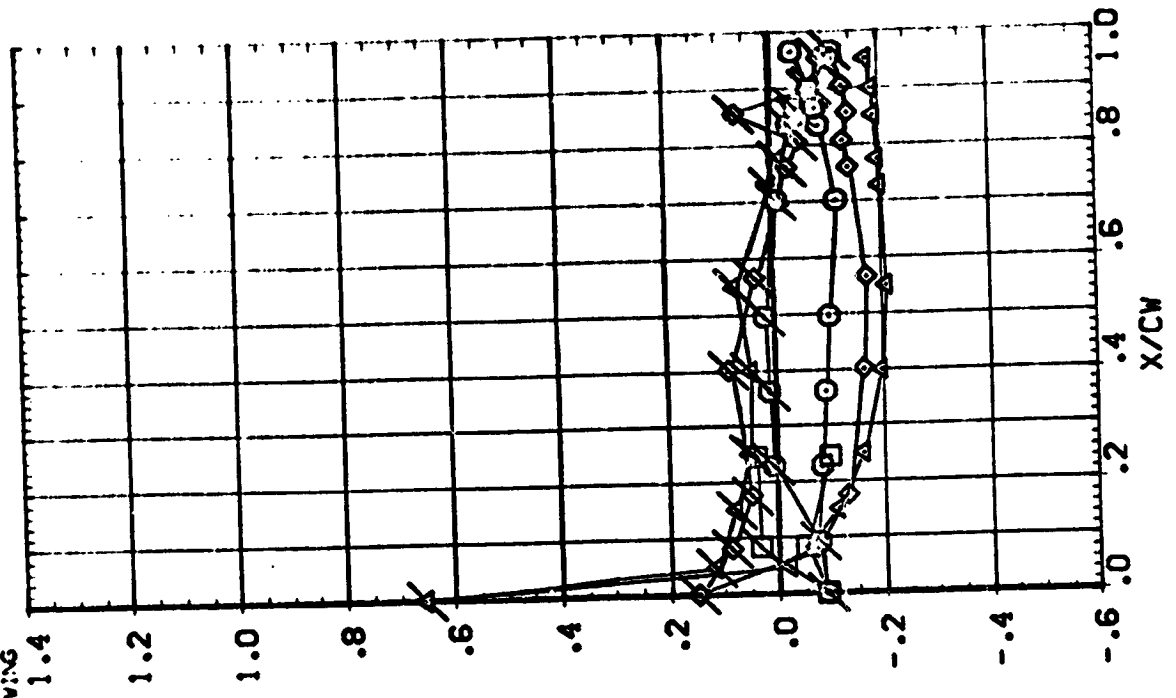
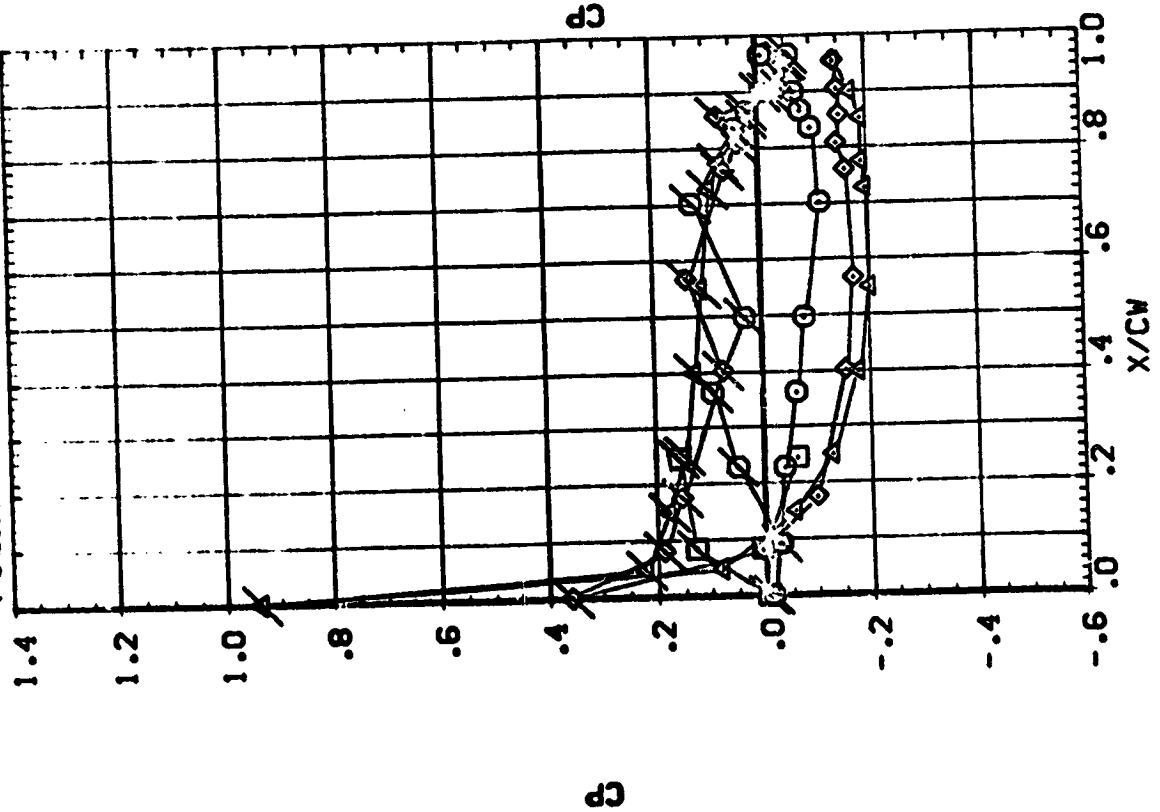
S-SEC V/34
 .288
 .364
 .477
 .534

SETA
 -4.90
 2.70

MACH
 2.498

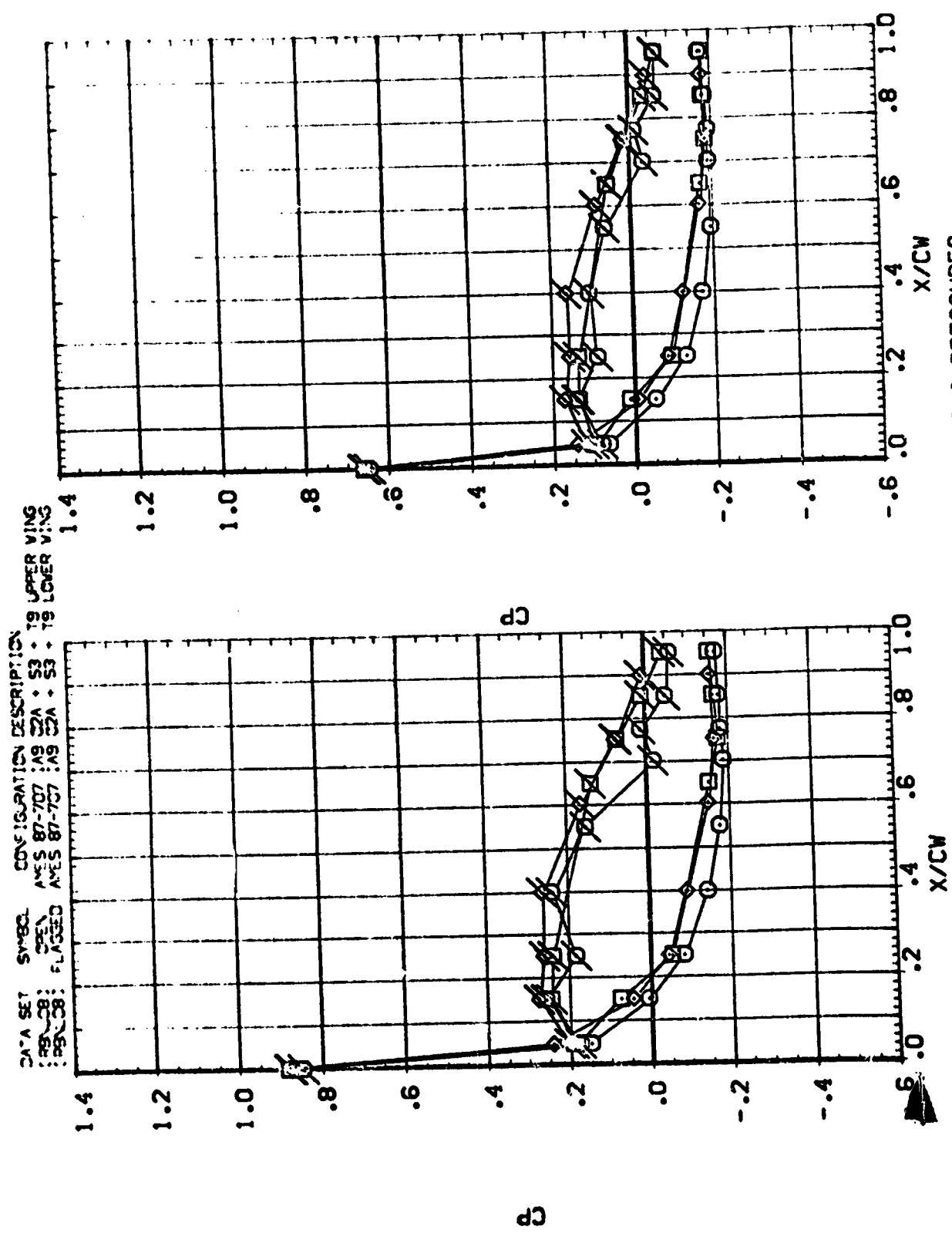
PARAMETRIC VALUES
 ALPHAT 4.000
 RUDDER .000
 RUOFLR .000

DATA SET SYMBO
 : 88-08 : OPEN
 : 89-08 : FLAGGED
 CONFIGURATION DESCRIPTION
 AYES 87-707 : A9 C2A : S3 : T9 UPPER WING
 AYES 87-707 : A9 C2A : S3 : T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBO: \circ \diamond
 V/B: .573
 .76C
 .887
 BEAT: -4.19C
 2.17C
 WAC: 2.498
 DATA SET: SYMBOL: CONFIGURATION DESCRIPTION
 : FB: OPEN AXES 87-707 : A8 : 22A : 53 : T9 UPPER WING
 : FB: FLAGGED AXES 87-707 : A9 : 22A : 53 : T9 LOWER WING
 ALPHAT: 4.000 599.1C
 RUDDER: 1.000 0.000
 ROLF: 1.000 0.000
 DYNAMIC VALUES: .500
 .000



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

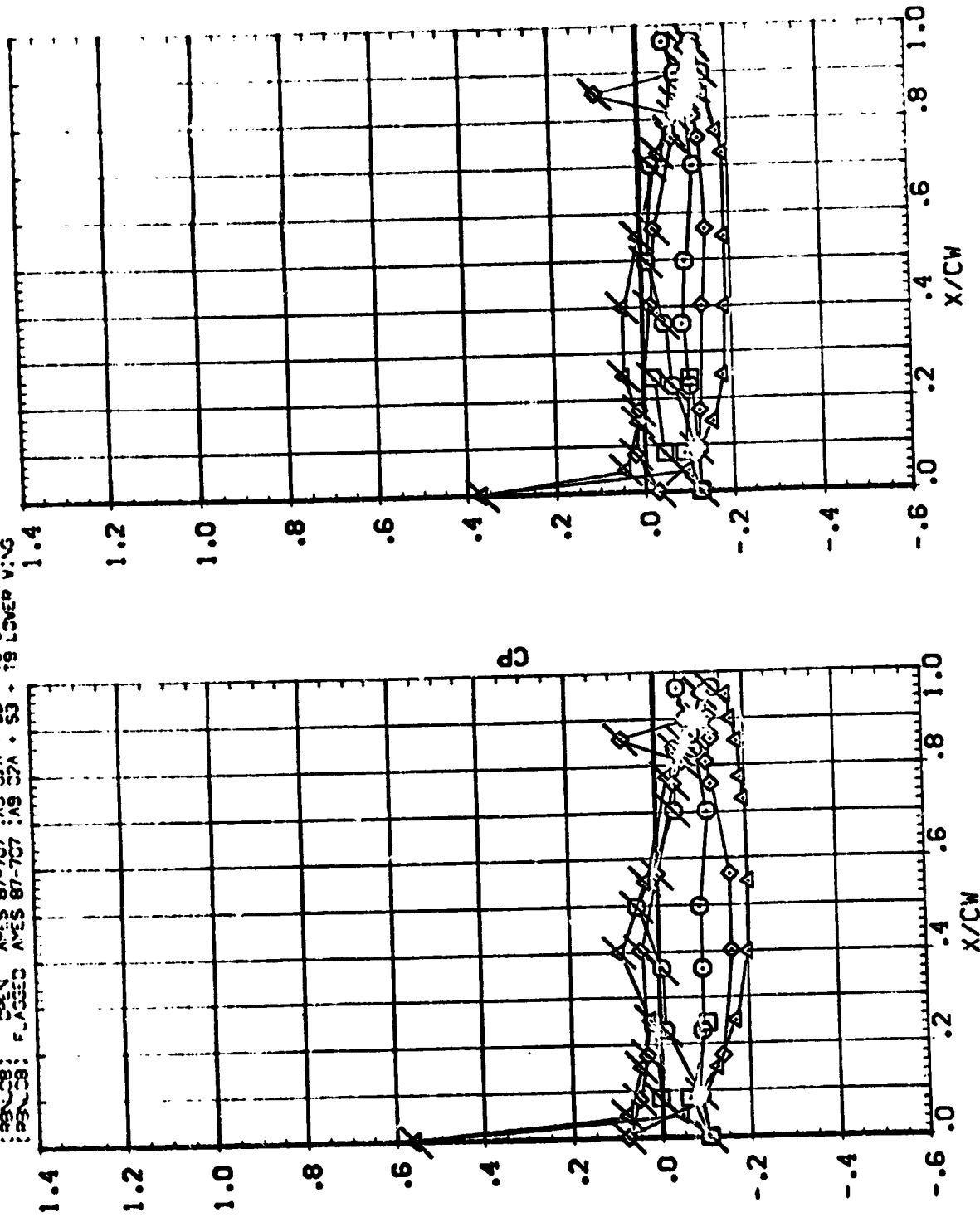
==

SYMBOL V/B₀ SE/A² MACH

0.799 4.300 2.498
0.364 0.550
0.427
0.534

PARAMETER VALUES
ALPHAT 4.000 999.00
RUDDER 0.000 0.000
RUEFLR 0.000 0.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
: 87-707 : A9 22A : S3 : 18 UPPER WING
: 87-707 : A9 22A : S3 : 18 LOWER WING



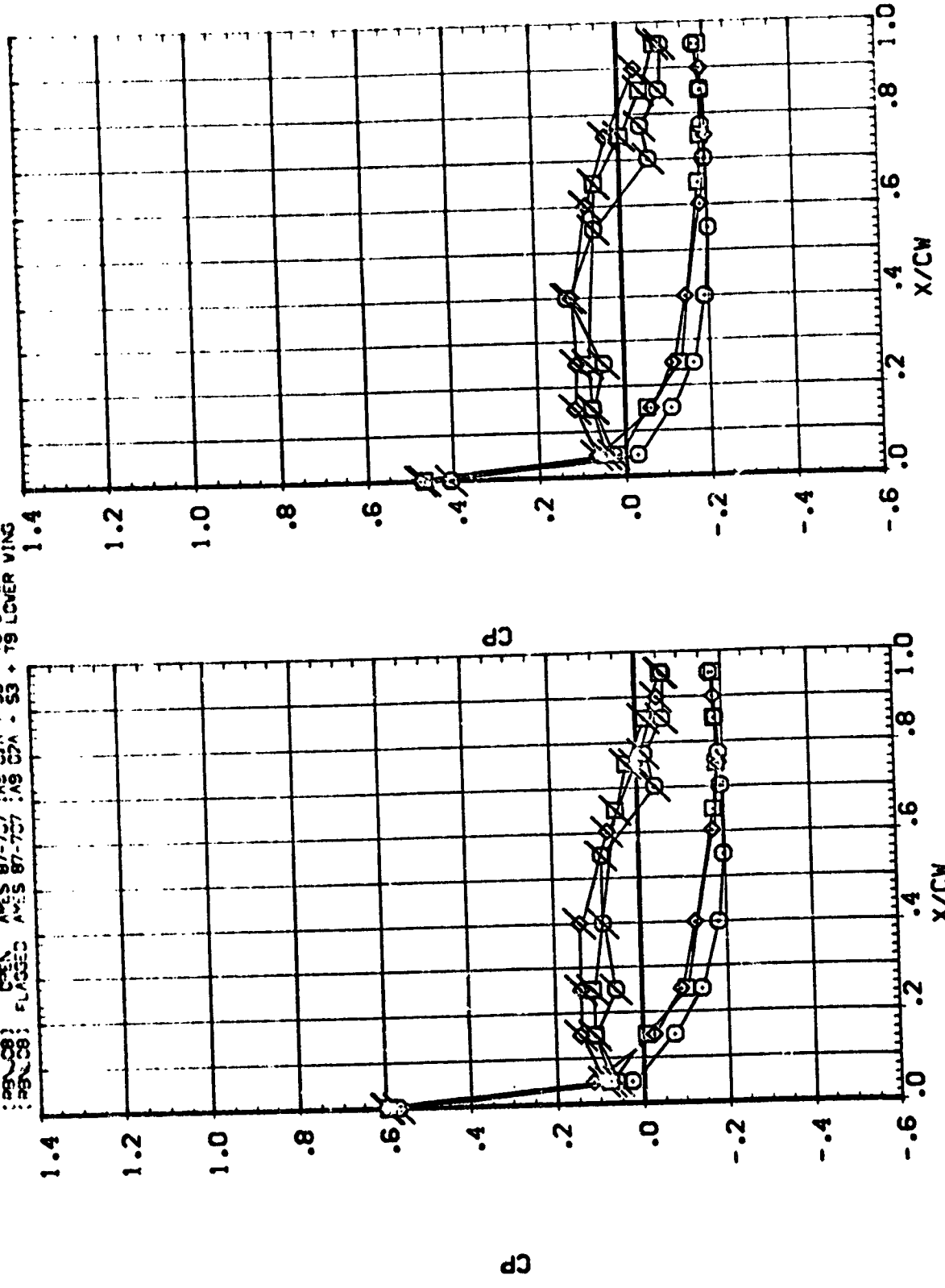
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETRIC VALUES

ALPHA	4.000	588.12	.500
ROTOR	1.000	FLEVEN	.000
ROTOR	1.000		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

88-08	OPEN	AVES 87-727	AS 02A + S3 + T9	UPPER WING
88-08	FLAPPED	AVES 87-727	AS 02A + S3 + T9	LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

III

SYMBOL
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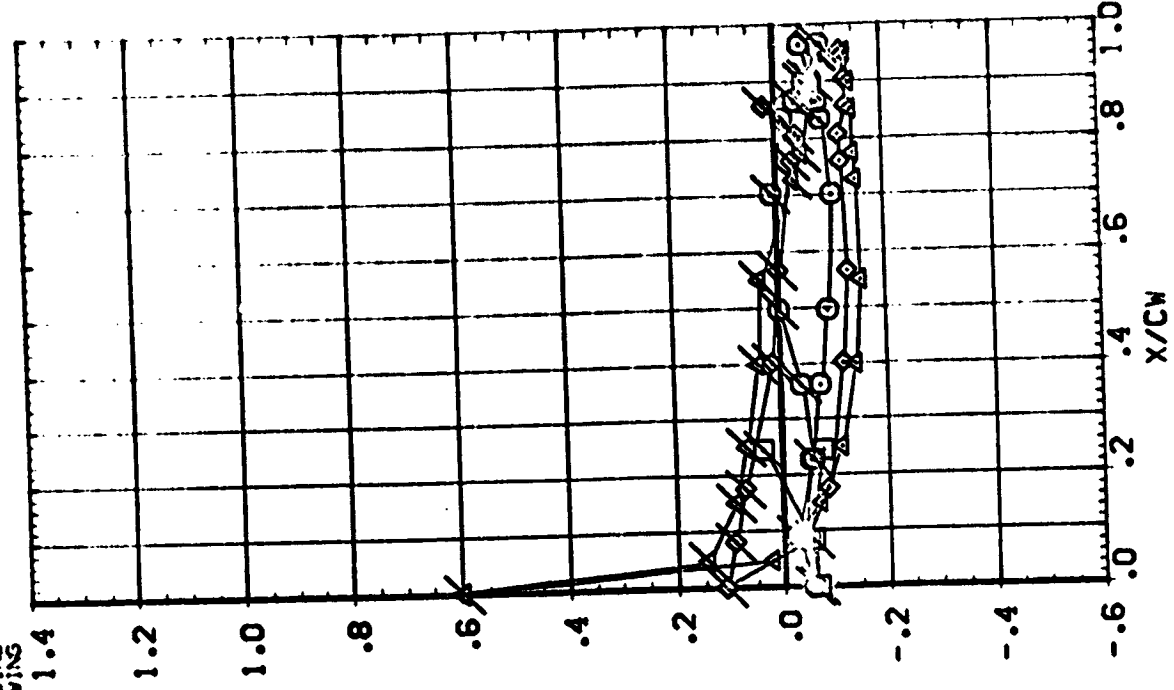
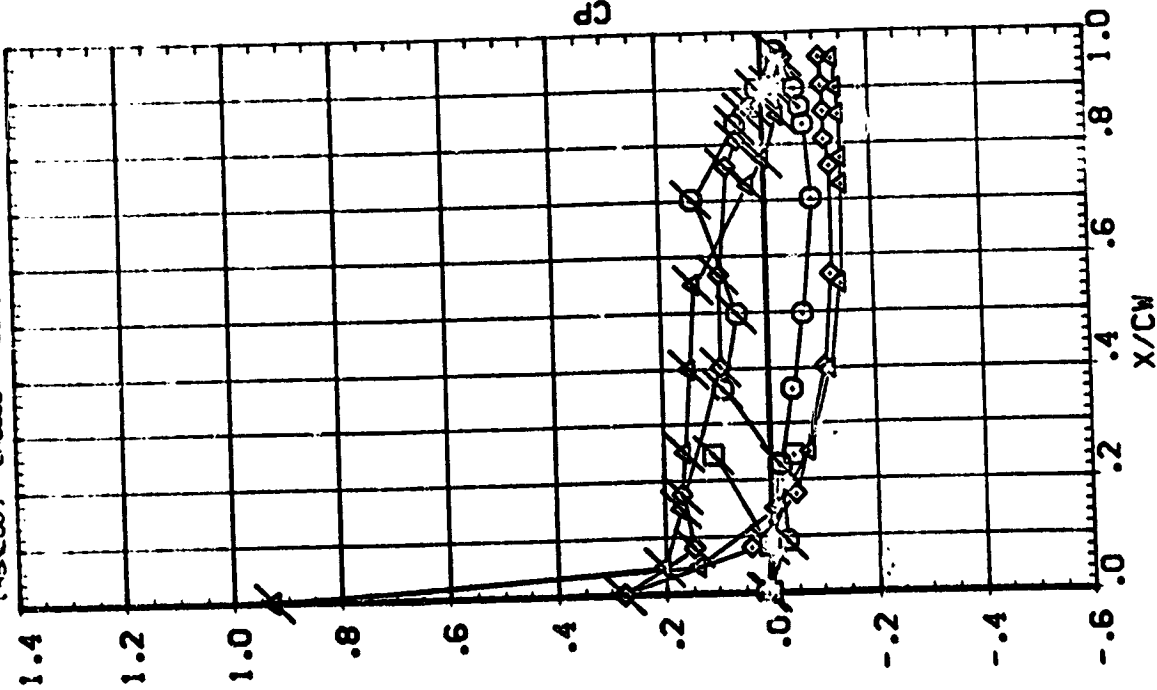
V/BN
.799
.364
.427
.534

BETAT
-4.760
2.210

MACH
7.359

PARAMETRIC VALUES
ALPHA: 4.000 599: 1.000
RUD: 0.000 0.000
RUC: 0.000 0.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
[RENCB] OPEN AYES 87-707 : A9 C2A : S3 : T9 UPPER WING
[RENCB] FLAIED AYES 87-707 : A9 C2A : S3 : T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETRIC VALUES

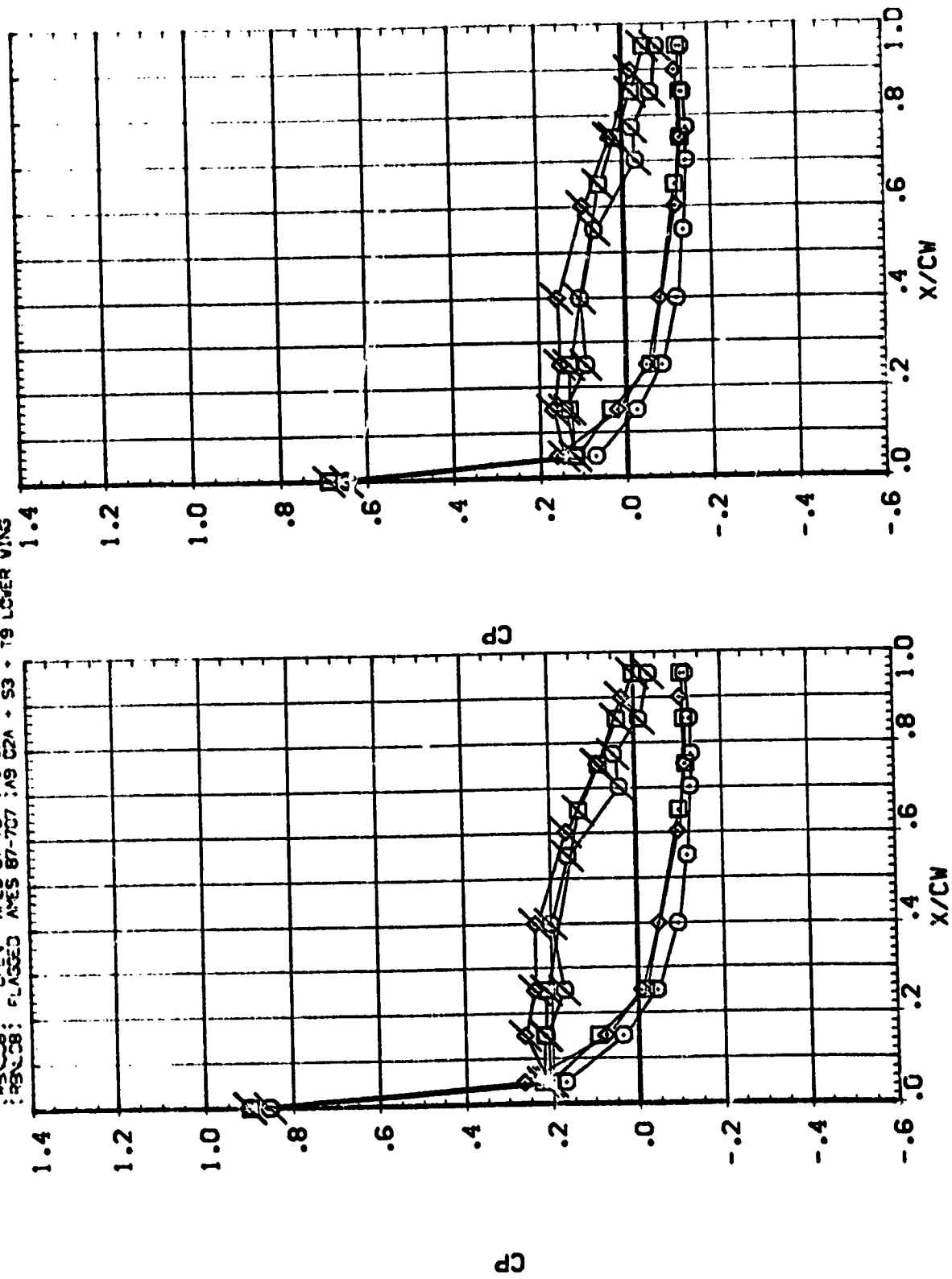
ALPHAT	4.120	999.1C	.500
RUDDER	.000	ELEVON	.000
FLUTER	.000		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

RSUB	OPEN	AMES 87-707	1A9 C2A	+ S3	+ T9	UPPER WING
RSUB	FLAPPED	AMES 87-707	1A9 C2A	+ S3	+ T9	LOWER WING

SYMBOL

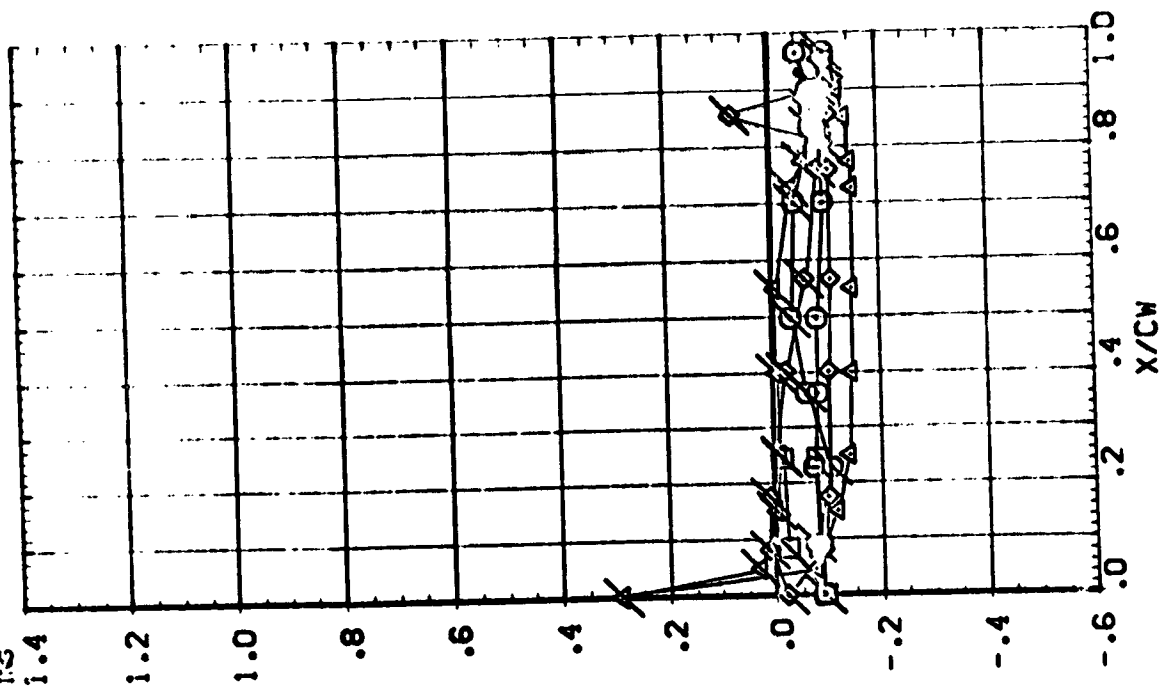
V/B4	BE'A"	VACH
.573	-4.260	2.999
.780	2.210	
.887		



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

ALPAC	1.000	89:2	000
RUBBER	.000	LEVER	
PAPER	.000		

NO161853C NO. 1 VERT. 100
200AS 135 V. V.



PAGE 700

PARAMETRIC VALUES

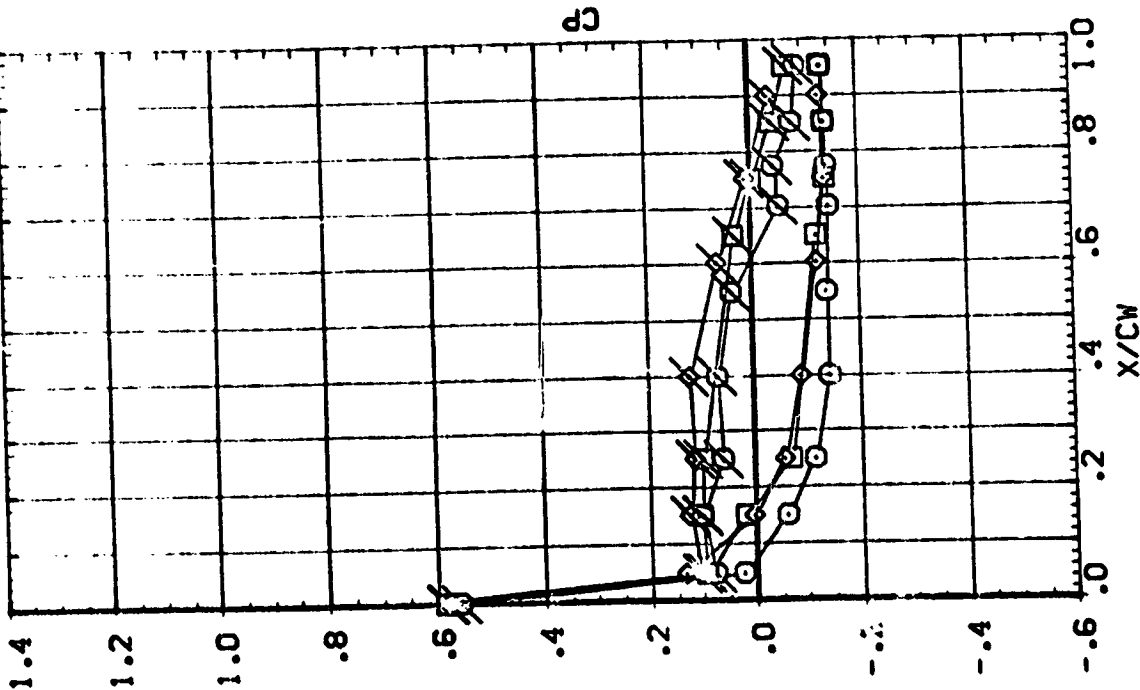
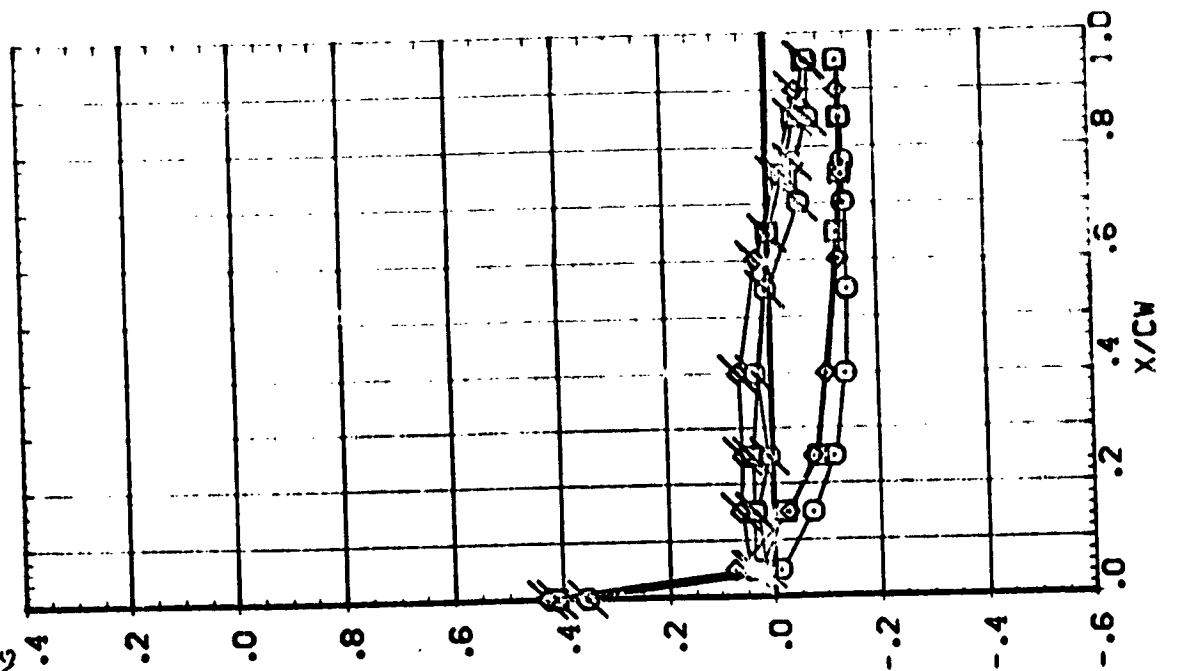
ALPHA	4.000	99.00
REYNOLDS	1.000	ELEVATION
Q/0.19	1.000	

SYMBOL

W/3	BE "A"	WACH
.573	4.370	7.999
.780	8.700	
.887		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

88008	OPEN	AMES 87-707	AS C2A - S3	S3	TS UPPER WING
88008	FLAGGED	AMES 87-707	AS C2A - S3	S3	TS LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETRIC VALUES

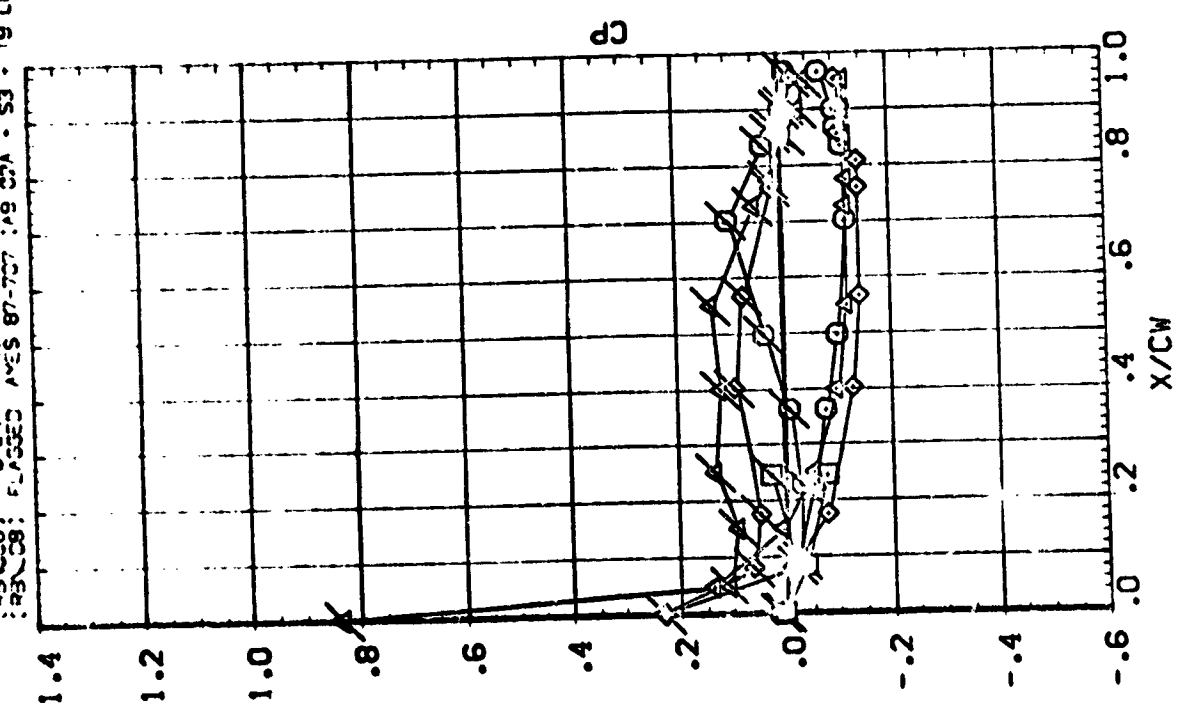
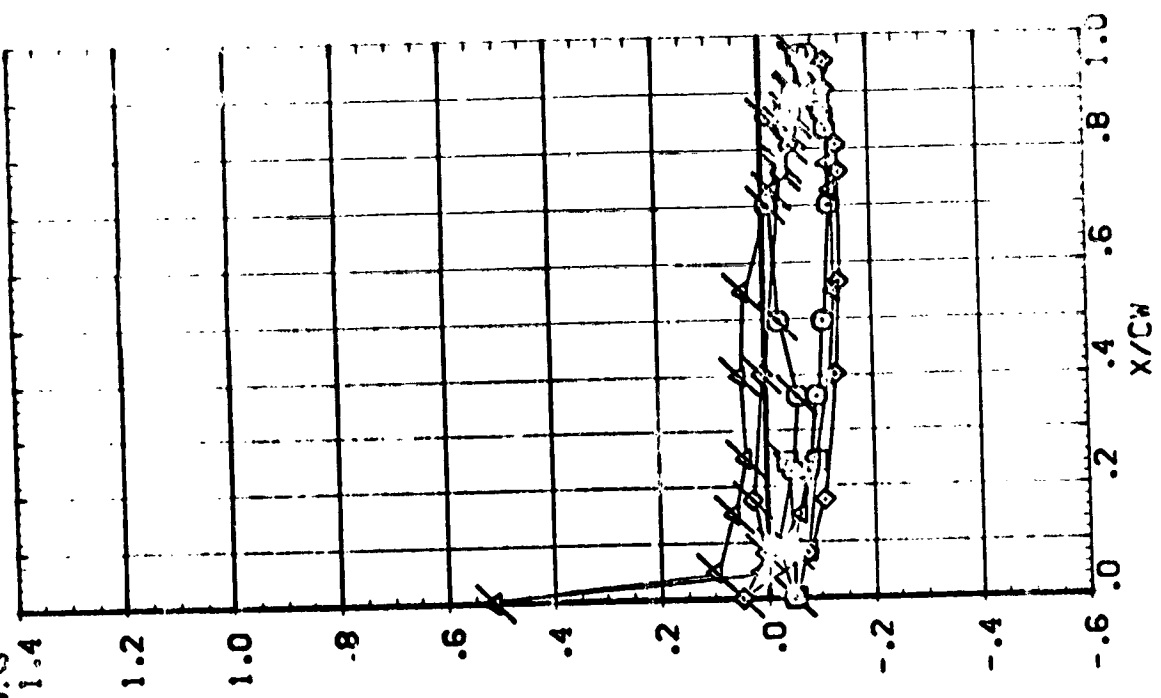
ALPHA	4.000	99.910
BETA	0.000	0.000
REYNOLDS	1.000	1.000

DATA SET

SYMBOL	NAME	WING
87-727	OPEN	3.500
87-727	FLAPPED	7.160

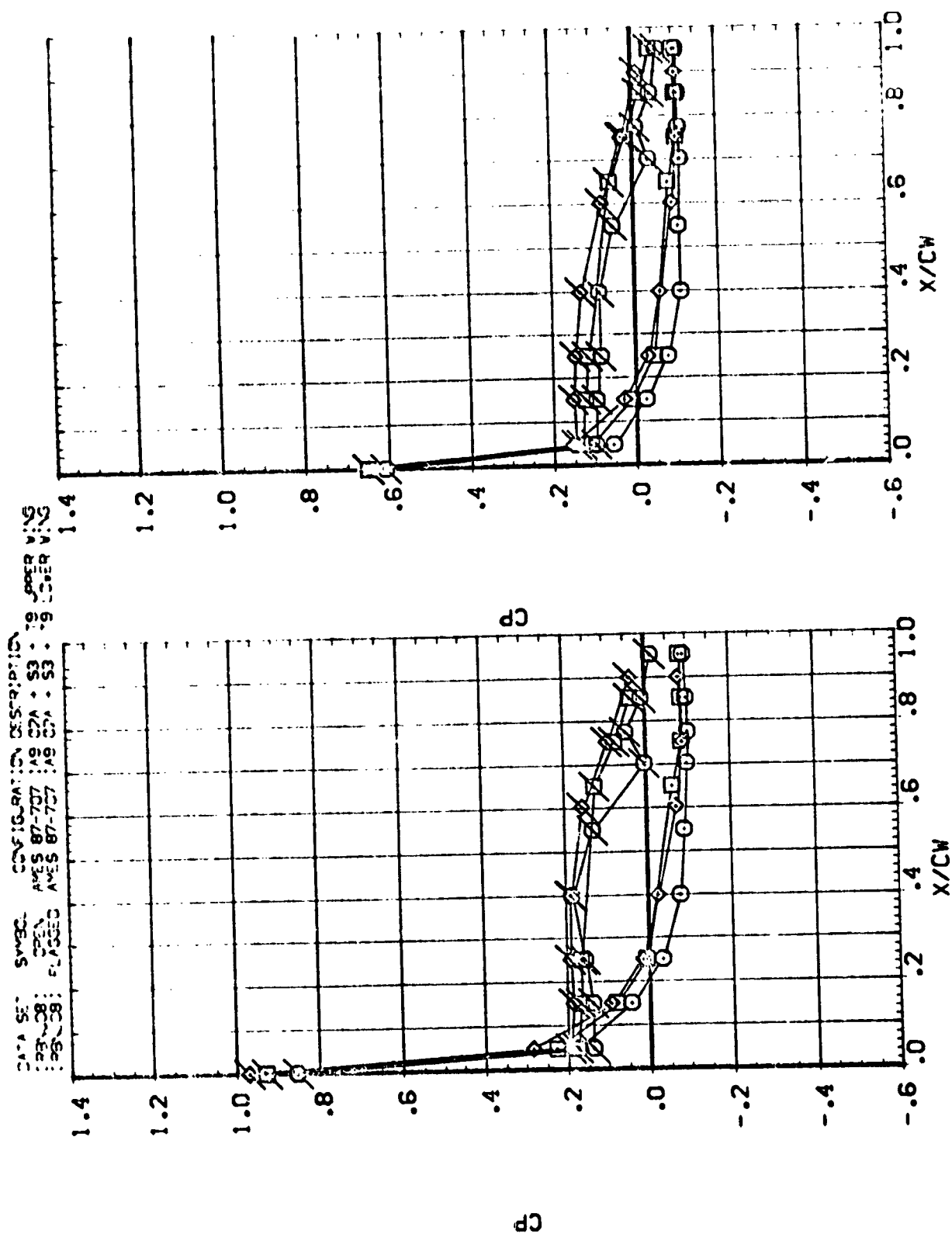
CONFIGURATION DESCRIPTION

87-727	UPPER WING
87-727	LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

3.74	3.532
4.330	
2.785	

[illegible]

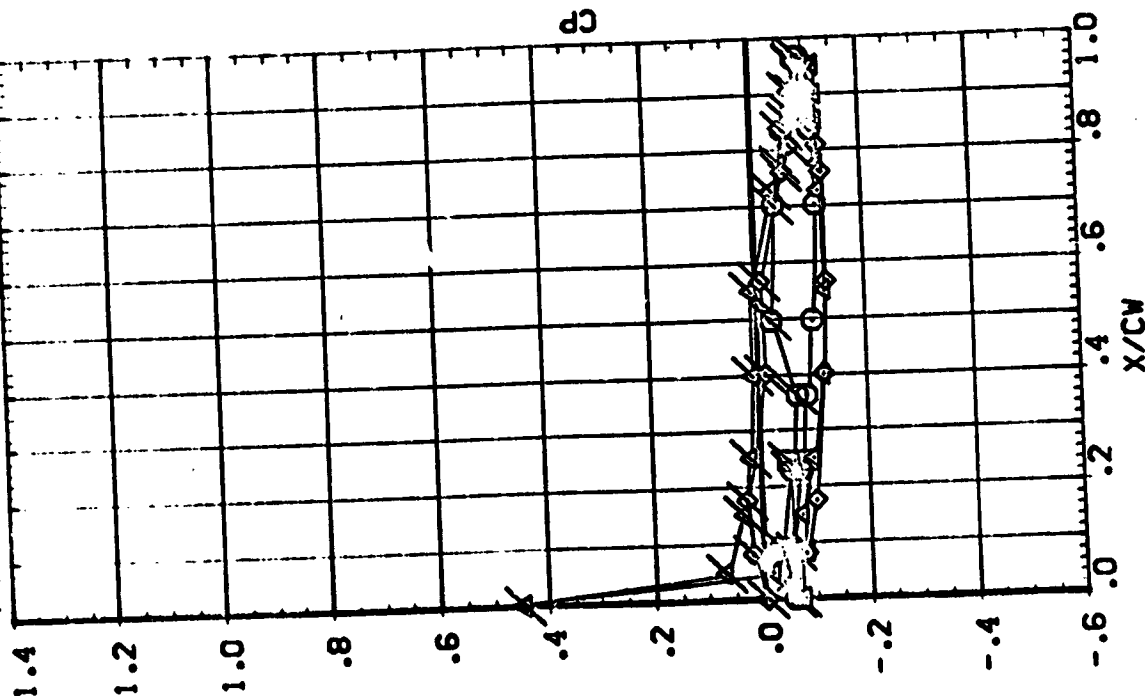
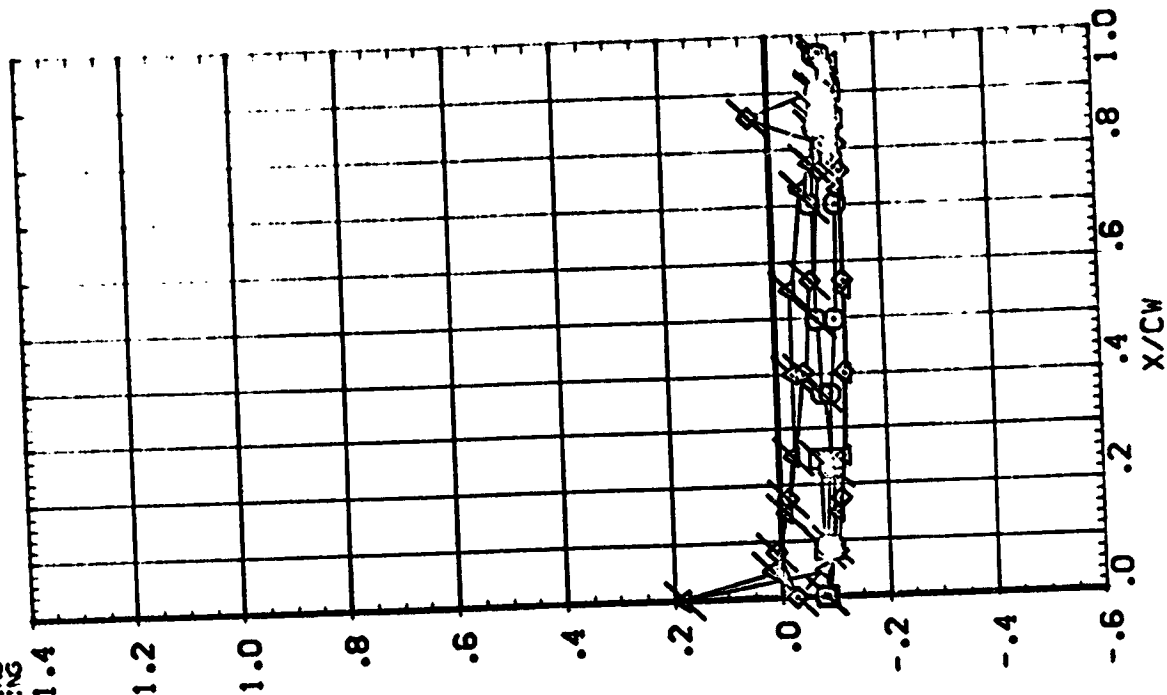
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

RCOLR

8.86C

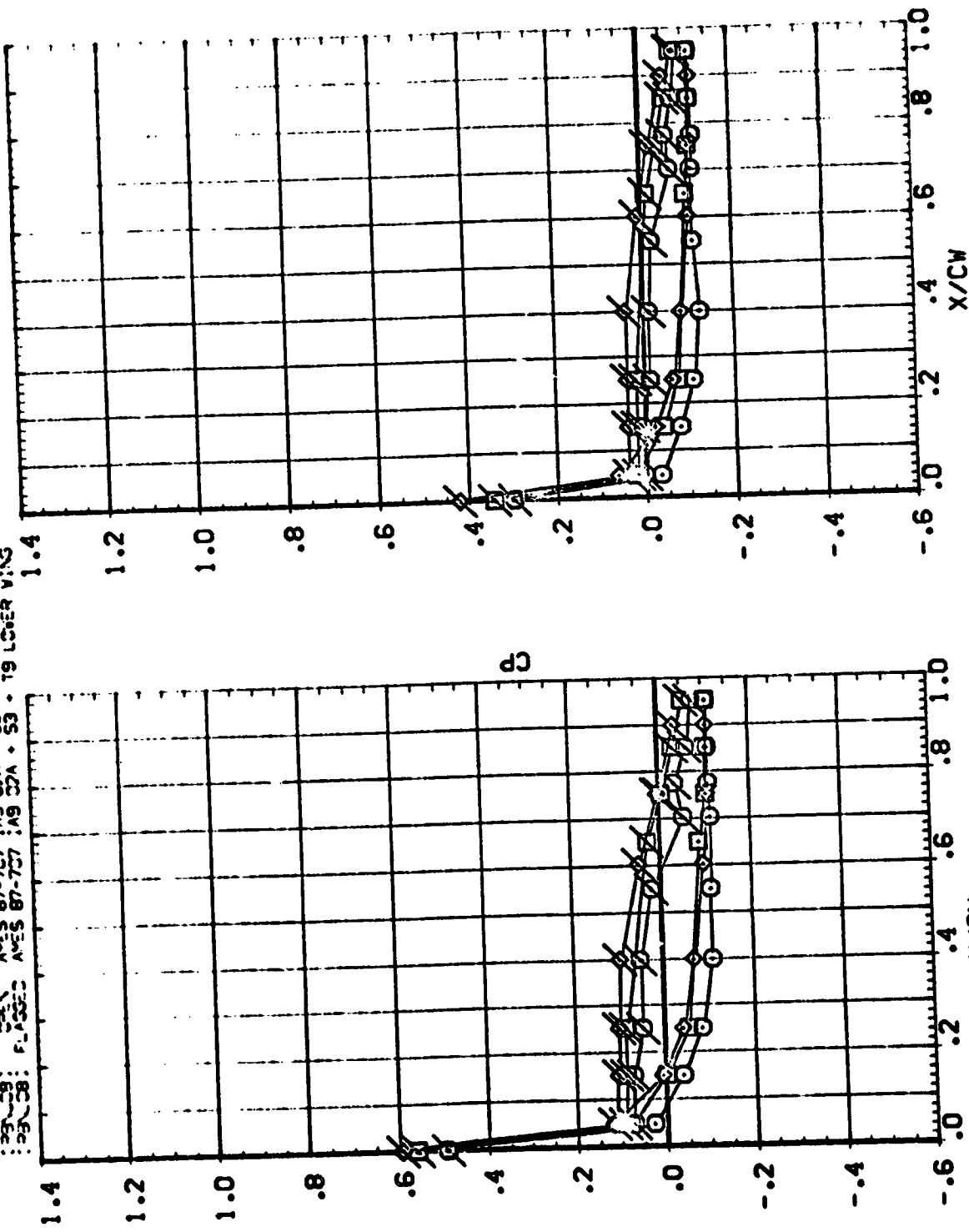
.354
.427
.534

DATA SET: SYMBOL CONFIGURATION DESCRIPTION
 : 88-08 : OPEN : AYES 87-707 : A9 C7A : S3 : 19 UPPER WING
 : 88-08 : FLAPPED : AYES 87-707 : A9 C7A : S3 : 19 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

DATA SET: SYMBO: CONFIGURATION DESCRIPTION
 : 39 : 39 : AVE'S 87-707 : A9 : 32A : S3 : 19 : UPPER WING
 : 39 : 39 : AVE'S 87-707 : A9 : 32A : S3 : 19 : LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

[illegible]

NO 141533
CLASSIFICATION

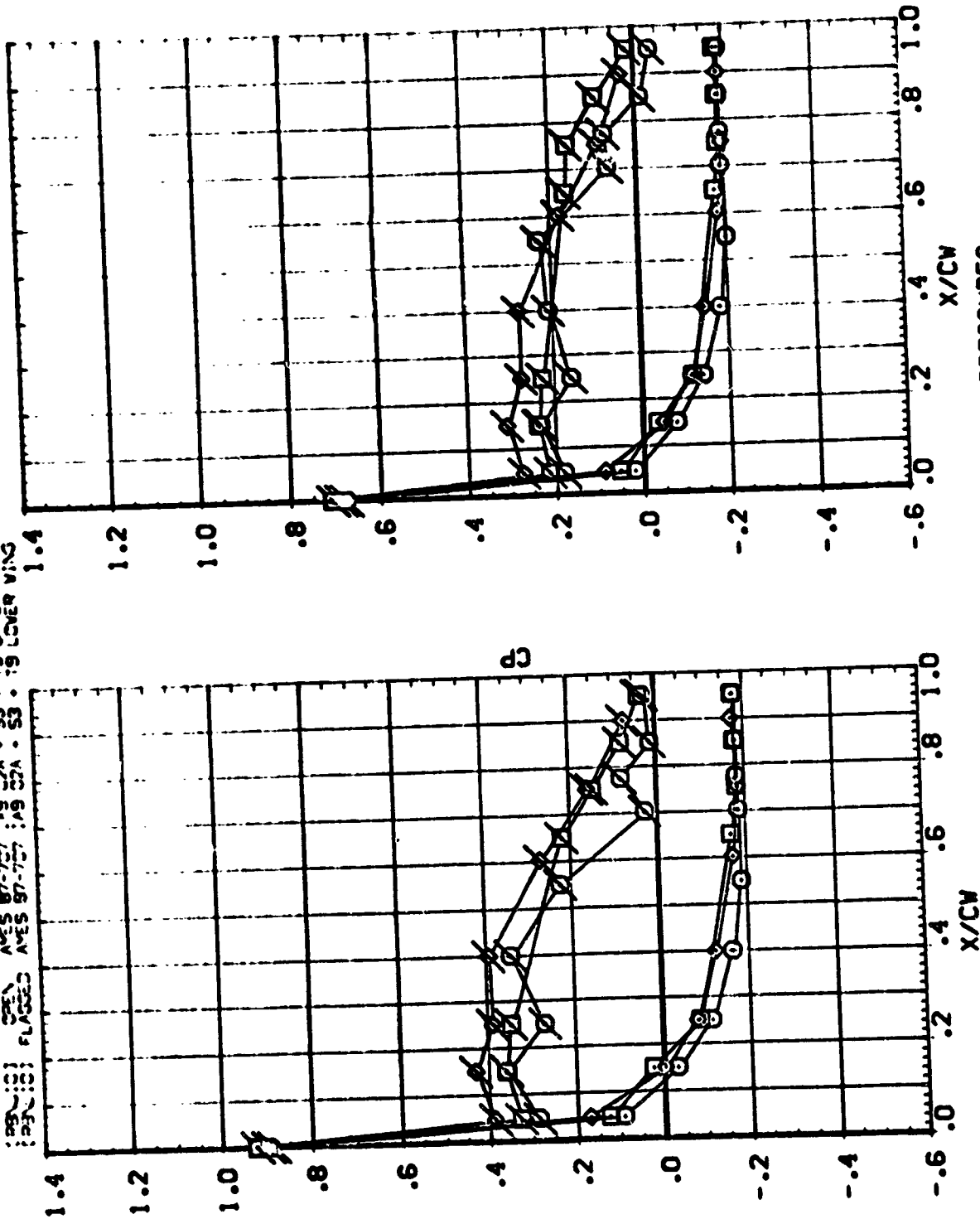


CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

855
-5A5-

5774 J.B. Zverev

DATA SET SYMBOL DESCRIPTION
 19-121 OPEN ASES 87-757 19 27A - S3 : 19 UPPER WING
 19-122 FLAGED ASES 87-757 19 27A - S3 : 19 LOWER WING

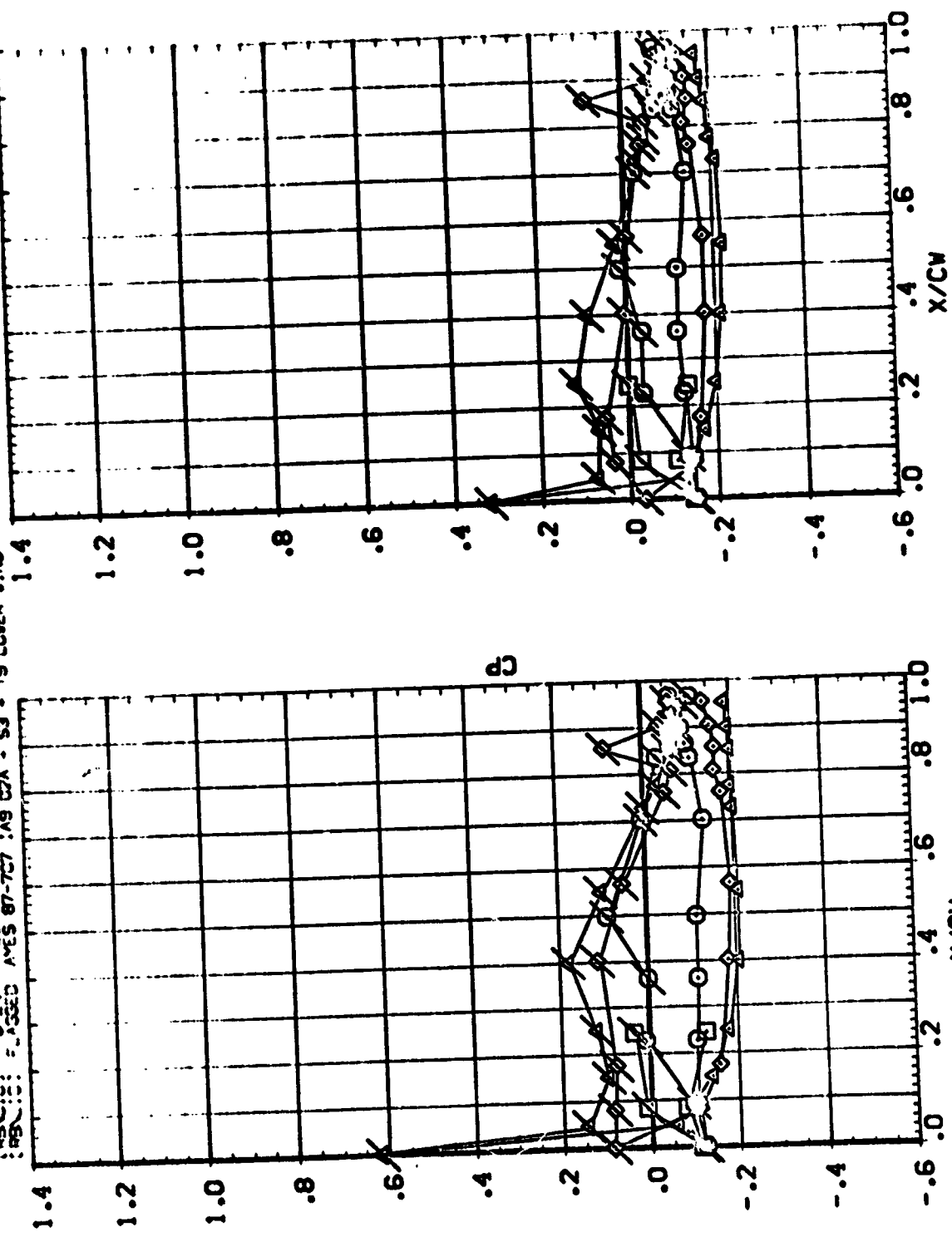


CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETRIC VALUES
 ALPHAT 0.000 599.12
 RUDDER 1.000 ELEVON
 RUDLR 1.000

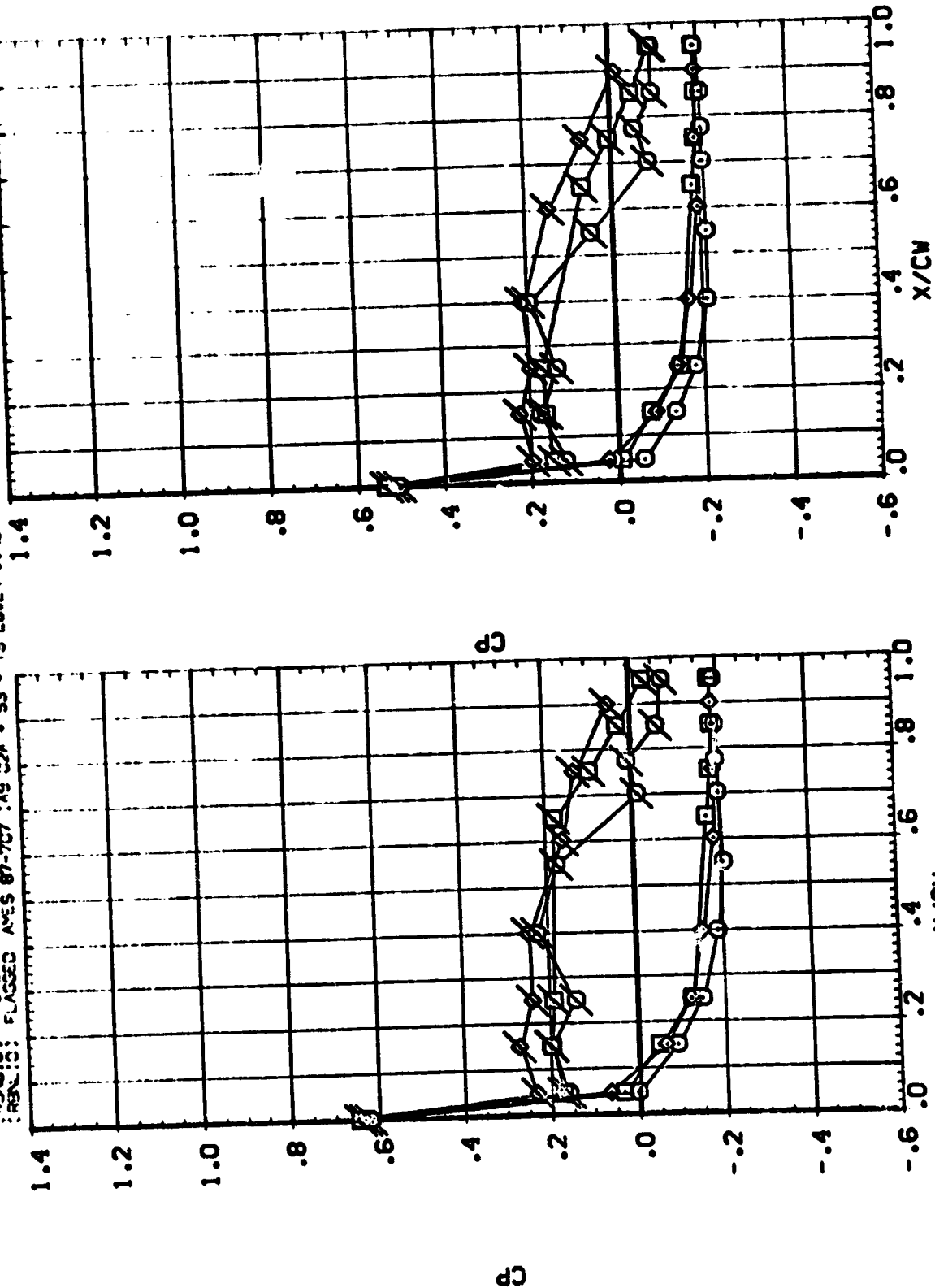
DATA SET: SWECC CONFIGURATION DESCRIPTION
 (WING) OPEN AYES 87-707 :A9 C2A : S3 : 19 UPPER WING
 (RUDDER) CLOSED AYES 87-707 :A9 C2A : S3 : 19 LOWER WING

SWECC Y/B₁ 7.99
 3.64
 4.27
 5.34
 SE-A₁ 4.32C 2.498
 8.58C



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

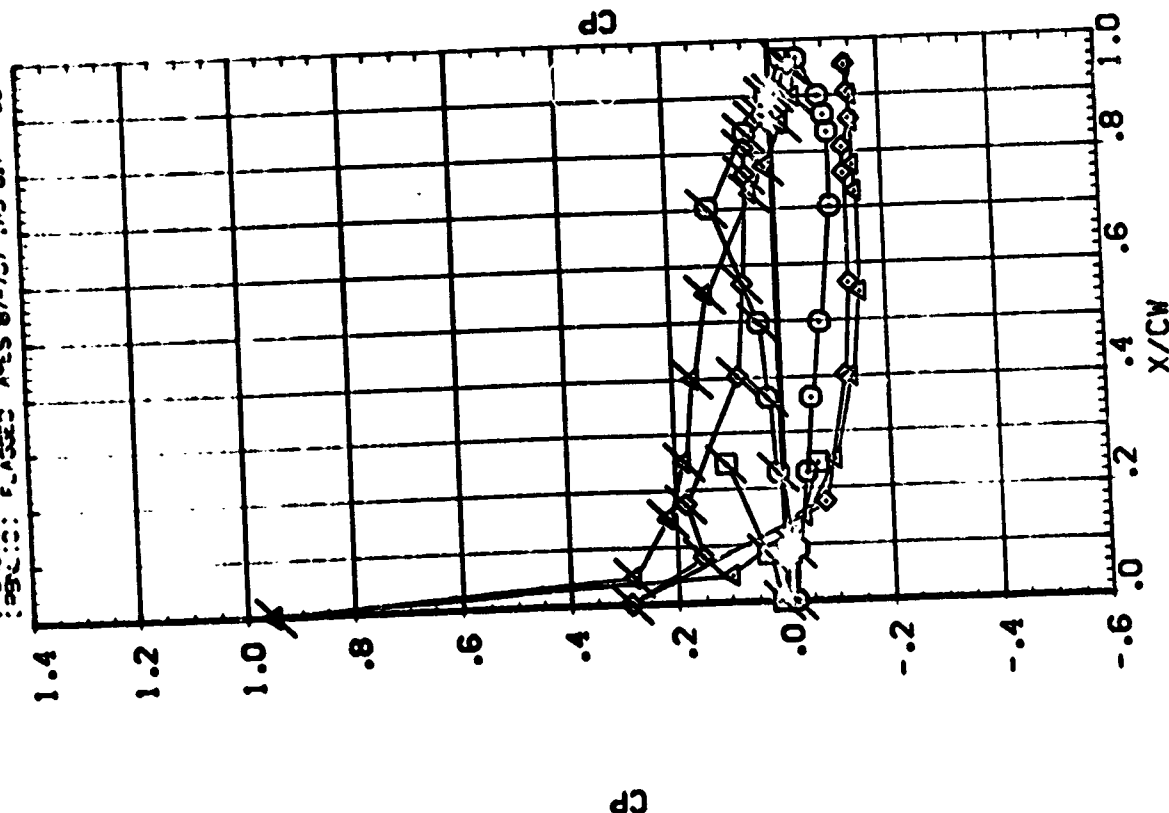
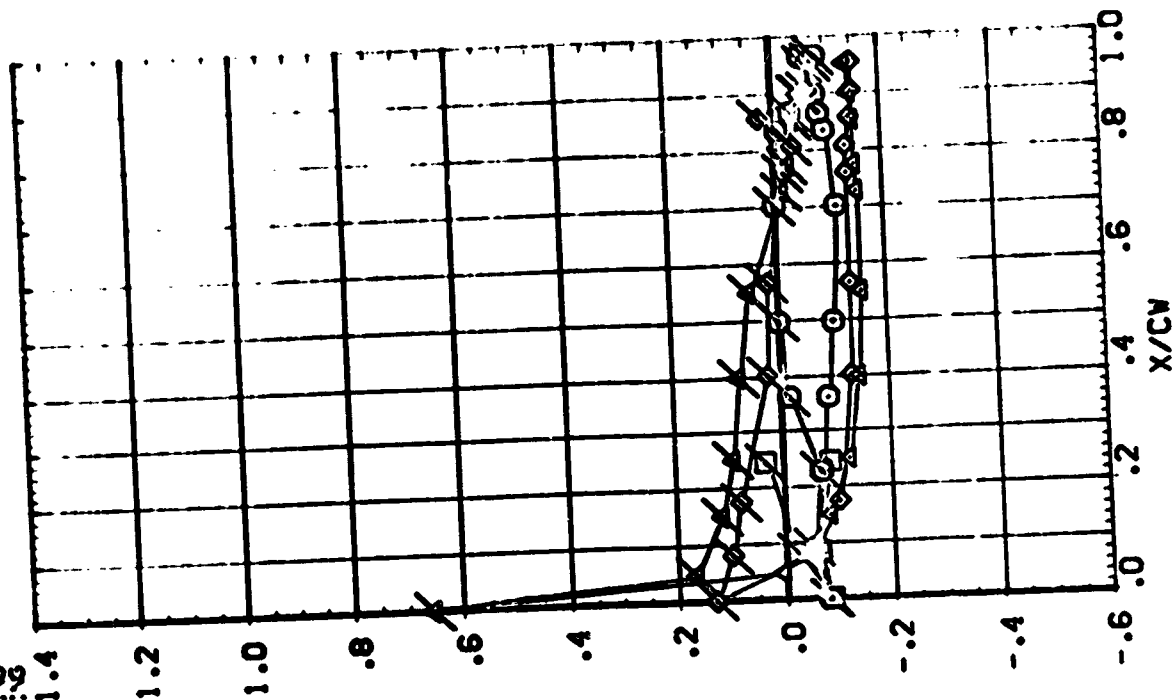
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 : P8010 : OPEN AXES 87-707 : A9 : 53 : 19 UPPER WING
 : P8010 : FLAGGED AXES 87-707 : A9 : 53 : 19 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

[illegible]

ALPHA
BETA
GAMMA

[illegible][illegible]

CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

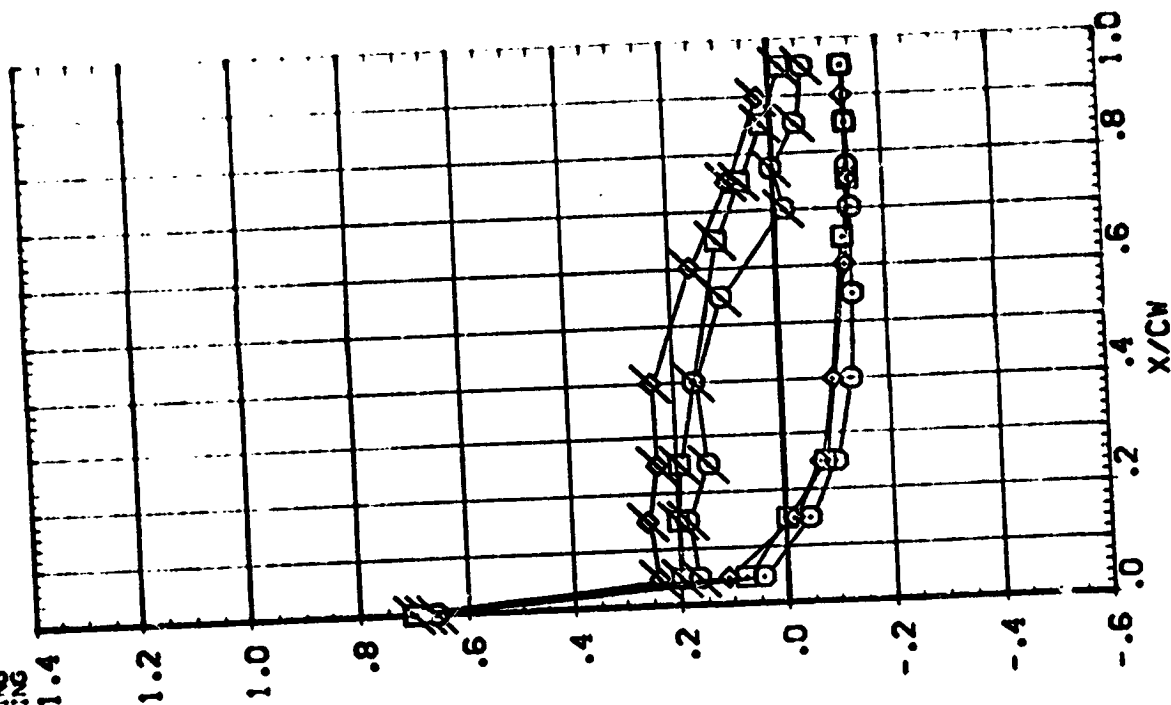
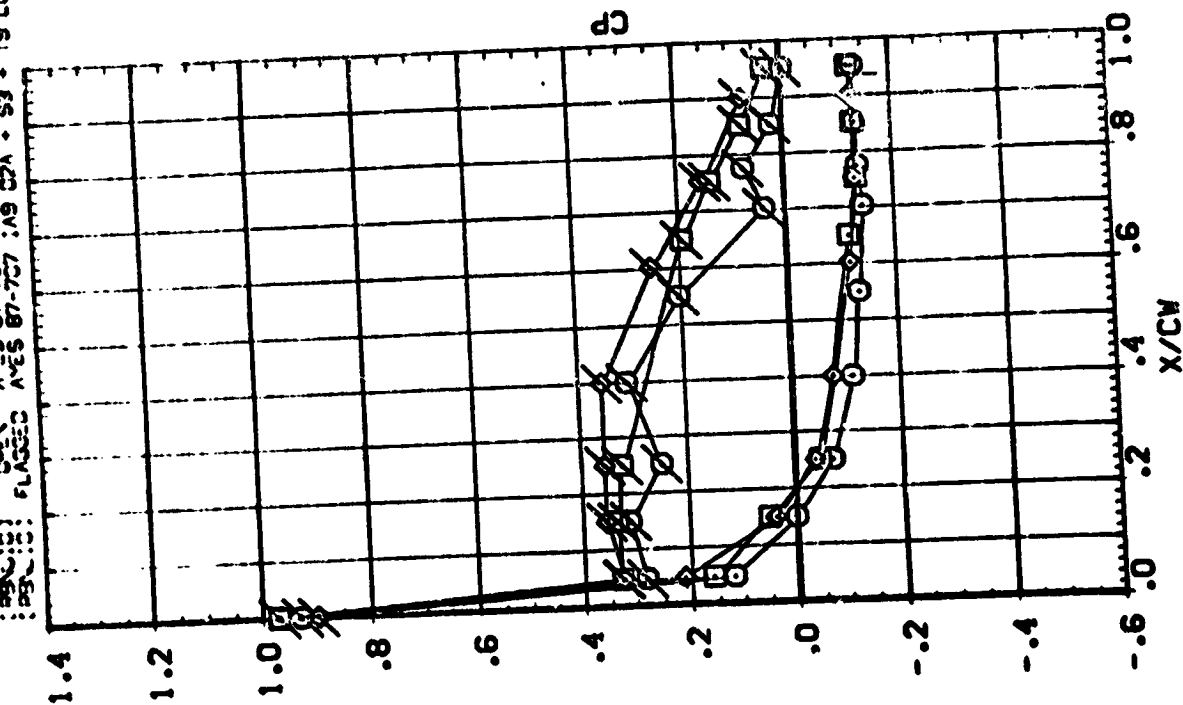
-4.243
2.73

REFL
NOTES

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13

	SYMBOL	DESCRIPTION
CAN SET	AES 87-707 :A9 C2A * S3 *	T9 UPPER VING
RENU(2)	AES 87-707 :A9 C2A * S3 *	T9 LOWER VING
PS:	FLAS-C	1.4

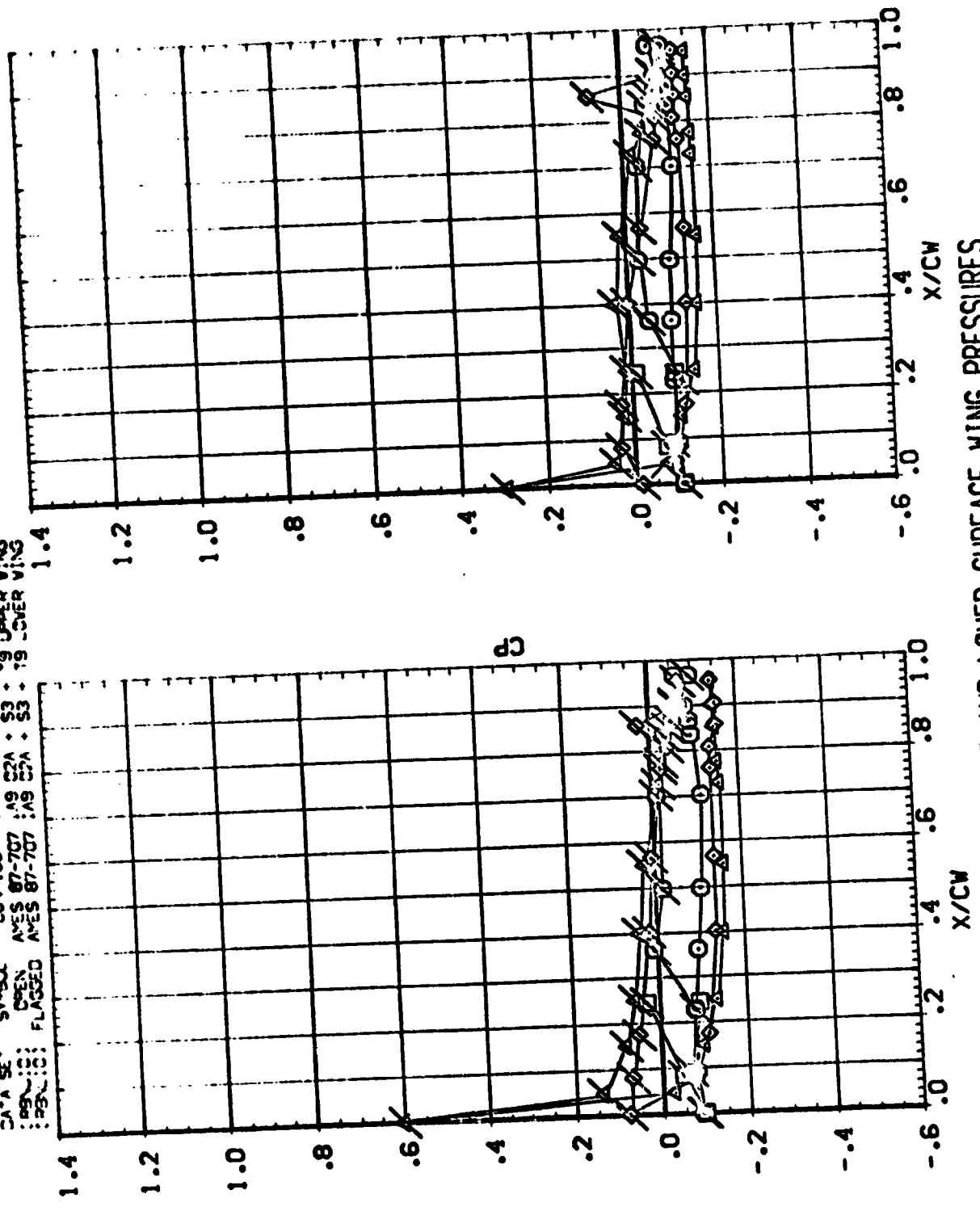


CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETRIC VALUES
 ALPHAT 0.000 0.0312 0.0625
 RUDDER 0.000 0.000 0.000
 RUSSLR 0.000 0.000 0.000

SYMBOL V/B4 BEAT WACH
 .788 4.400 7.999
 .364 8.740
 .477
 .534

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 : 051 : 01 : OPEN ASES 87-707 : A9 C2A : S3 : 19 UPPER WING
 : 052 : 01 : FLAGGED ASES 87-707 : A9 C2A : S3 : 19 LOWER WING



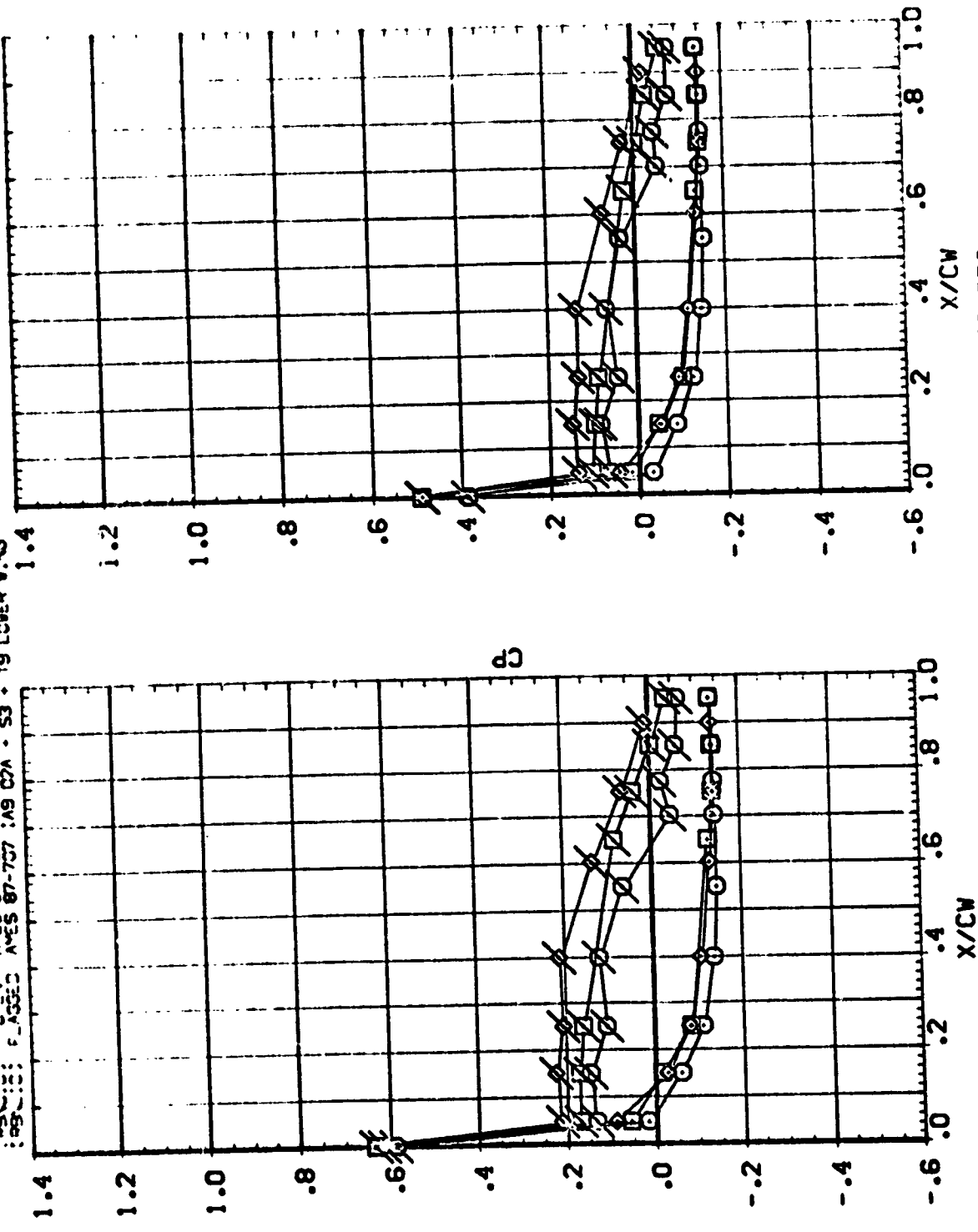
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

10000
 1.1134
 1.000
 R.0000
 R.0000

4.100
 8.740
 1.000

.673
 .780
 .887

DATA SET SYMBOL DESCRIPTION
 :PSN:100: CEN AXES 87-707 :A9 C7A : S3 : 19 UPPER WING
 :PSN:100: FLAGGED AXES 87-707 :A9 C7A : S3 : 19 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETRIC VALUES

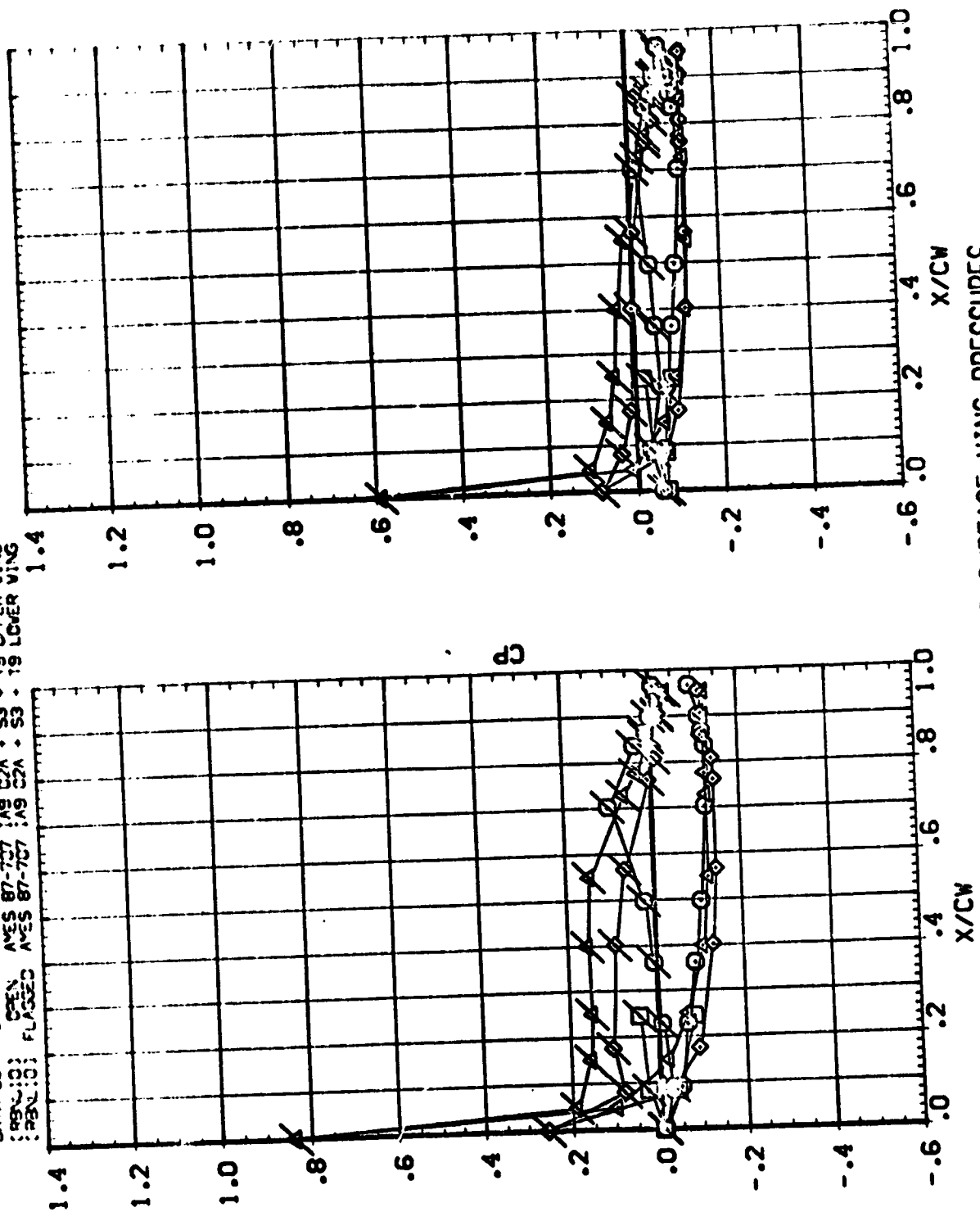
ALPHA	8.000	8.000
RUDDER	.000	.000
RUFLER	.000	.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(PBL) (0)	OPEN	AVES 87-707 (A9 C2A : S3 : 19 UPPER WING
(PBL) (0)	FLASSED	AVES 87-707 (A9 C2A : S3 : 19 LOWER WING

SYMBOL Y/BV BETA* MACH

○	.298	-4.310	3.502
◇	.354	2.260	
△	.427		
▽	.534		



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETER VALUES

ALPHAT	0.000	999.0
RUDER	.000	0.000
RUDFLR	.000	0.000

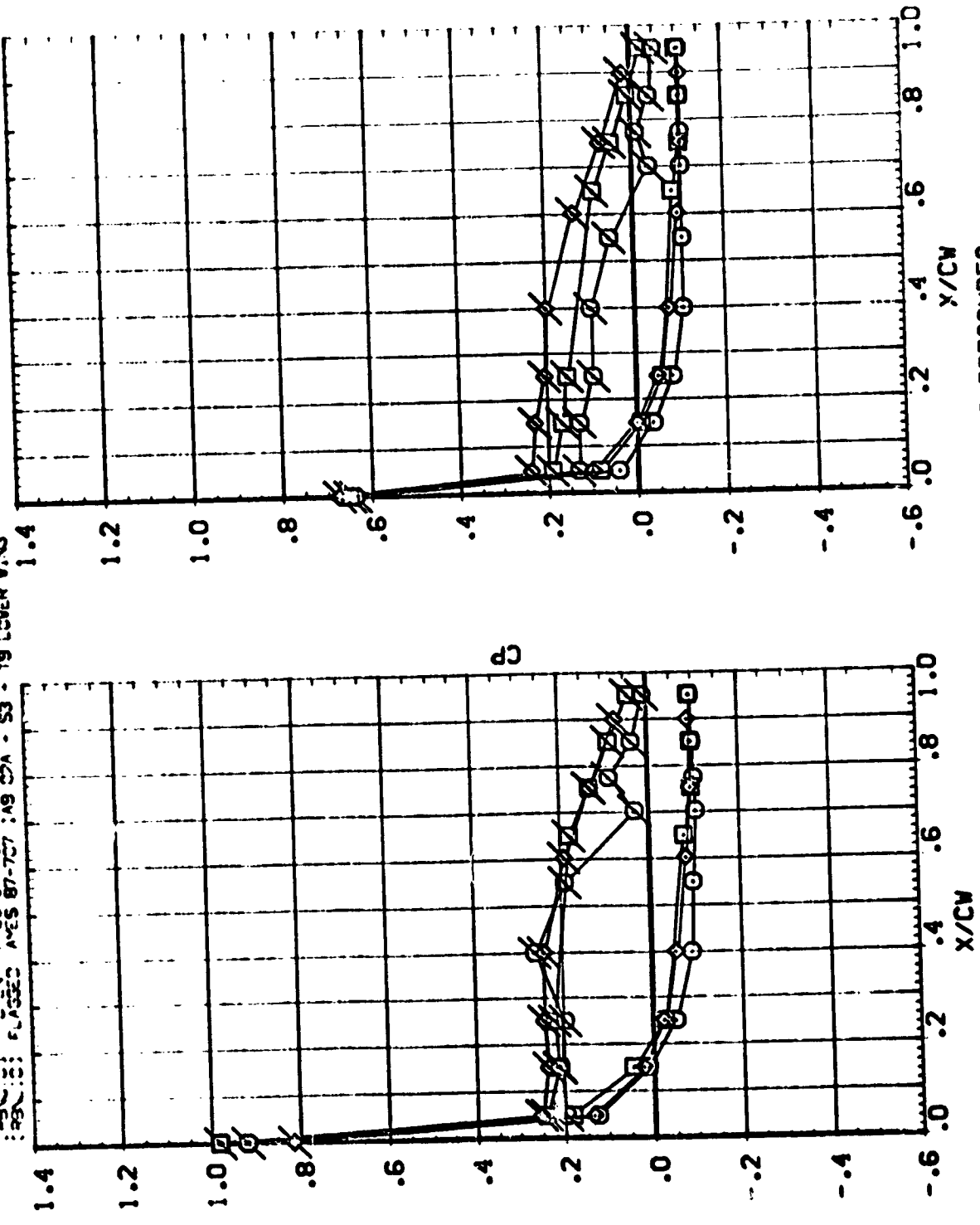
DATA SET: SYBC CONFIGURATION DESCRIPTION

SYBC	SYBC	SYBC
SYBC	SYBC	SYBC
SYBC	SYBC	SYBC
SYBC	SYBC	SYBC

AVES 87-707 : AG 2A : S3 : 79 UPPER WING
 AVES 87-707 : AG 2A : S3 : 79 LOWER WING

SYBC V/B4 BE/A WAC

SYBC	V/B4	BE/A	WAC
.673		-4.310	3.502
.780		2.760	
.887			

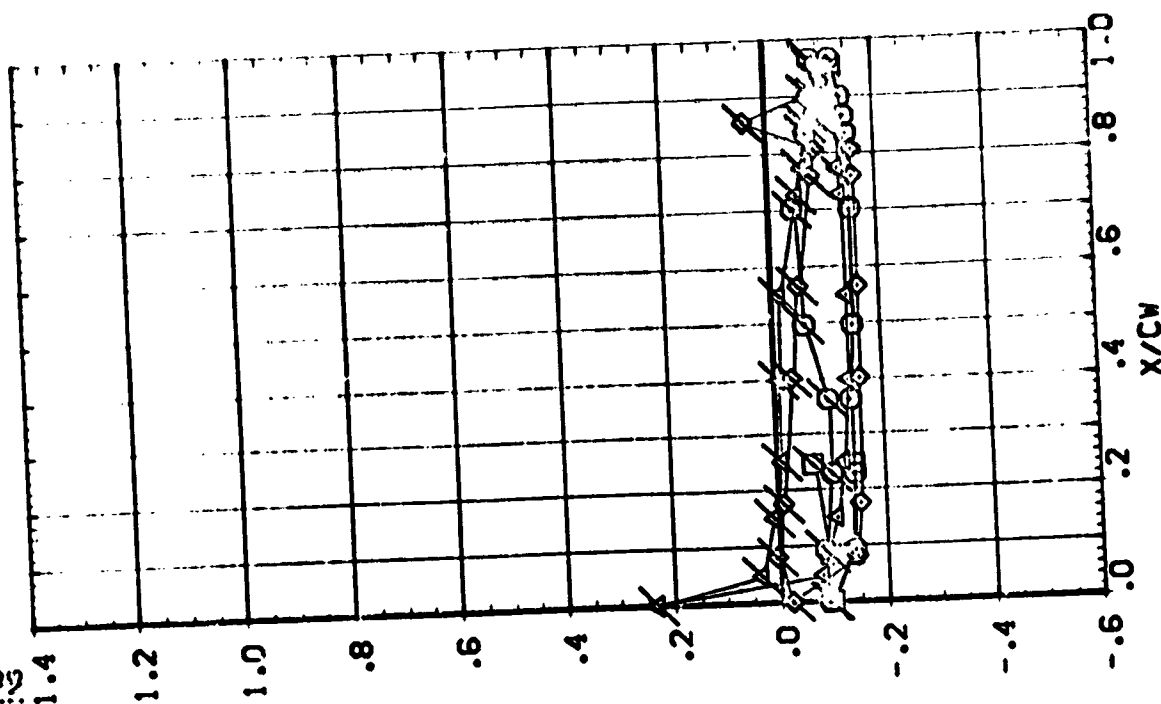
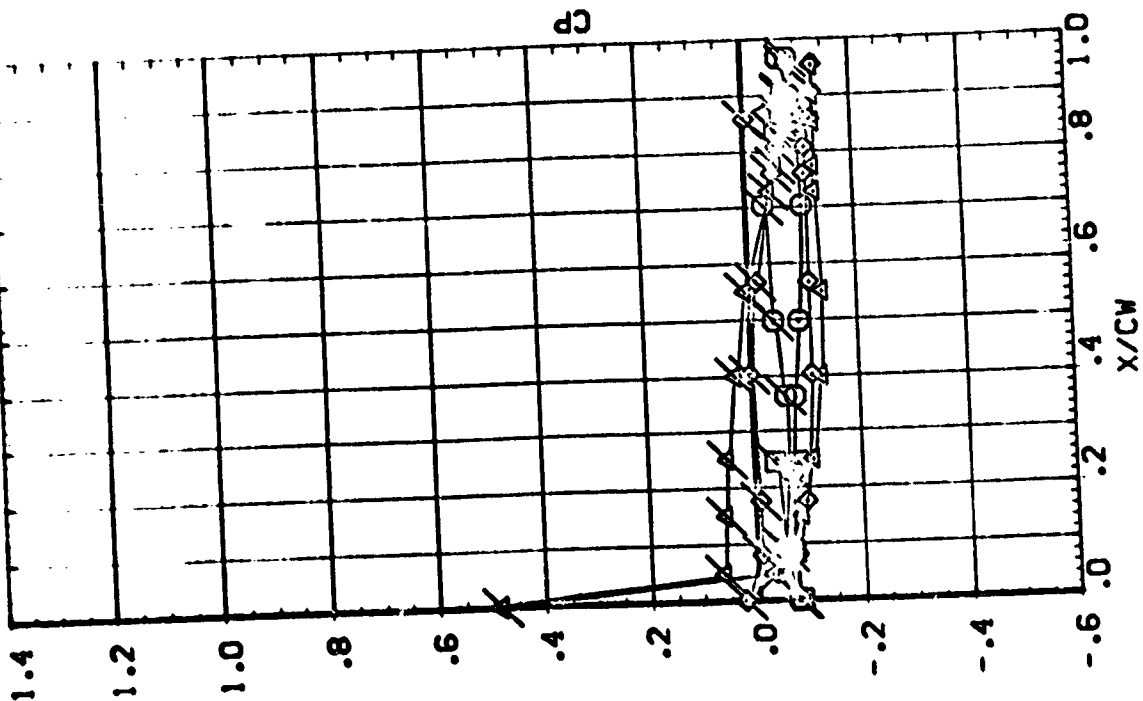


CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

VALUATION	
RECOVERED	8,000
EXPENSES	1,000
NET LOSS	7,000
CARRY-OVER VALUES	
INVESTMENT	100,000
EQUITY	93,000

3.0.12.	1.70	3.5.7	3.5.7
3.0.12.	1.70	3.5.7	3.5.7

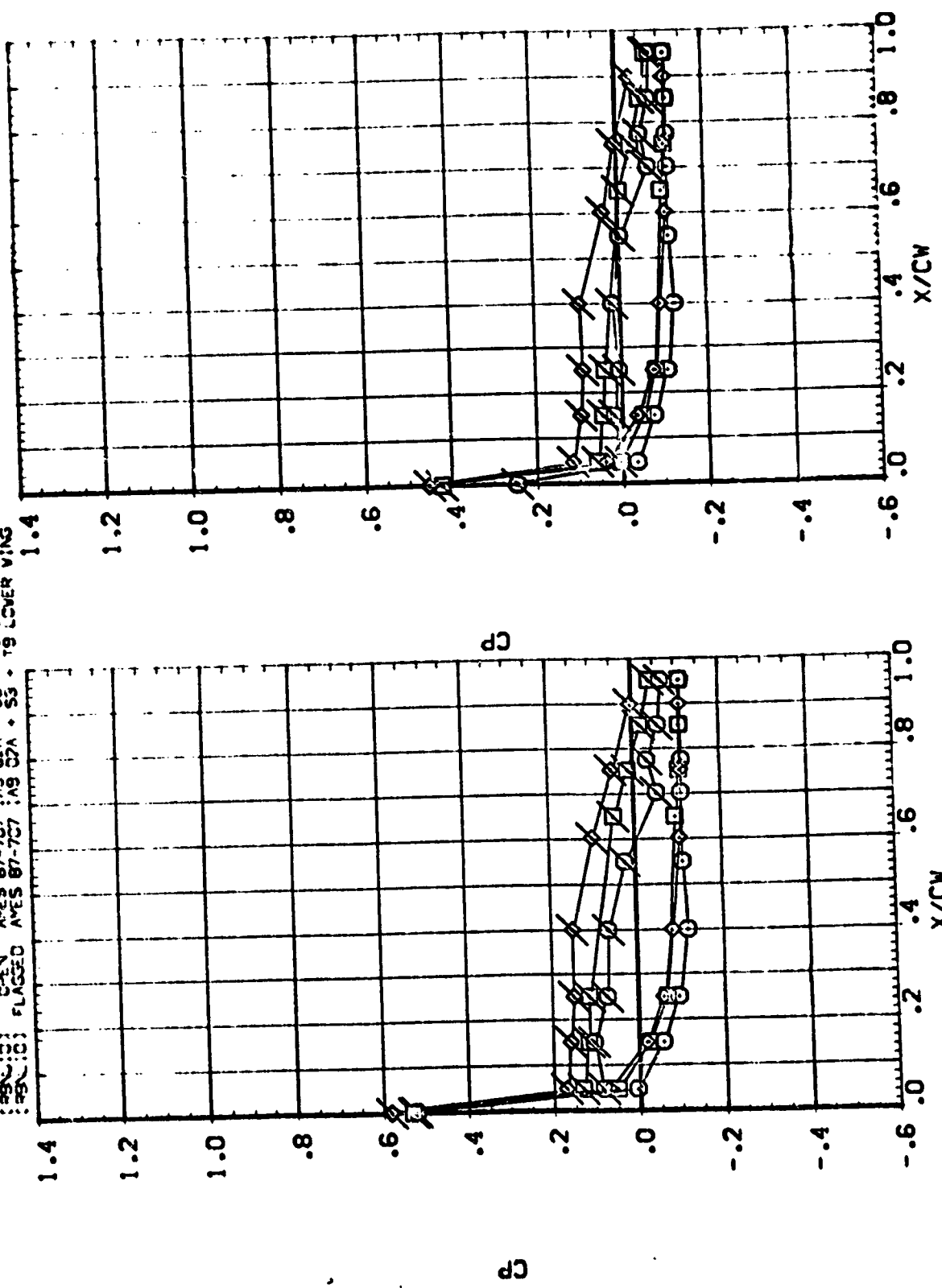
35 4 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1041 1042 1043 1044 1045 1046 1047 1048 1049 1050 1051 1052 1053 1054 1055 1056 1057 1058



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

U.U.
087

DATA SET: SYMBO. CONFIGURATION DESCRIPTION
:REV(10): OPEN AXES 87-707 :A9 C2A : S3 : T9 UPPER WING
:REV(10): FLAGGED AXES 87-707 :A9 C2A : S3 : T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

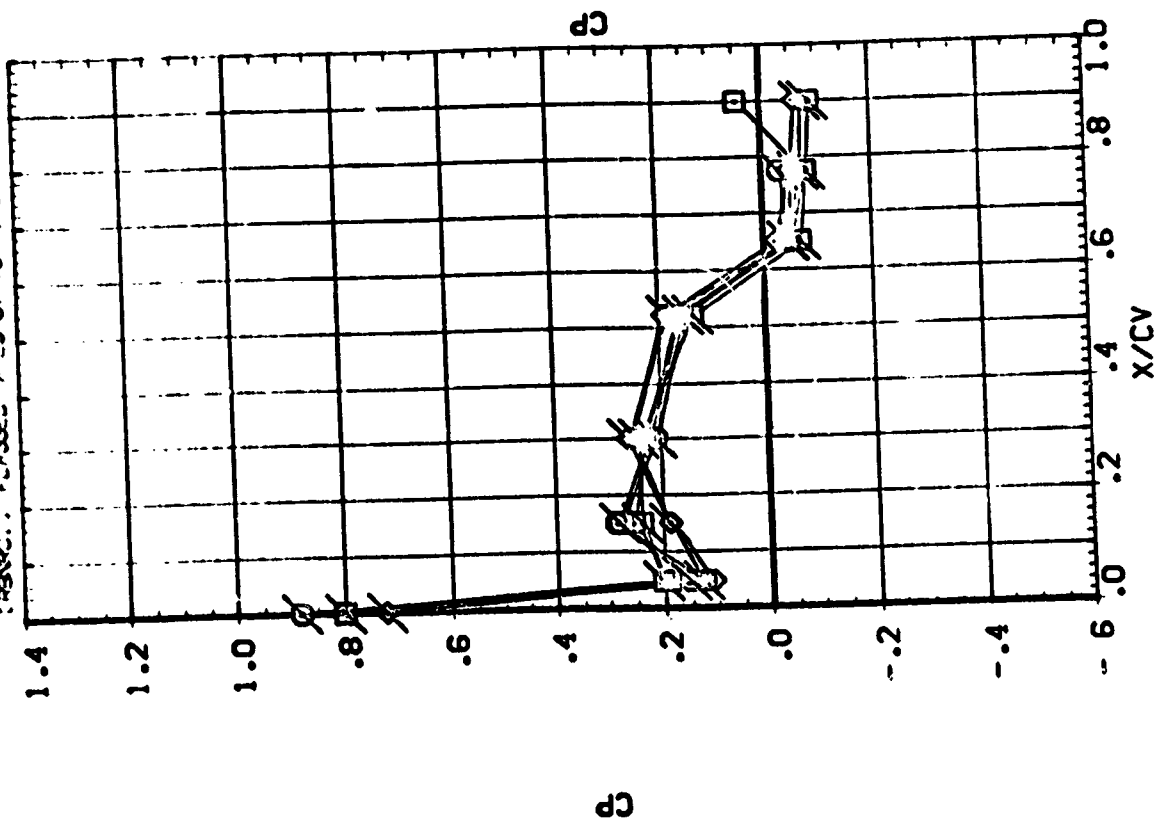
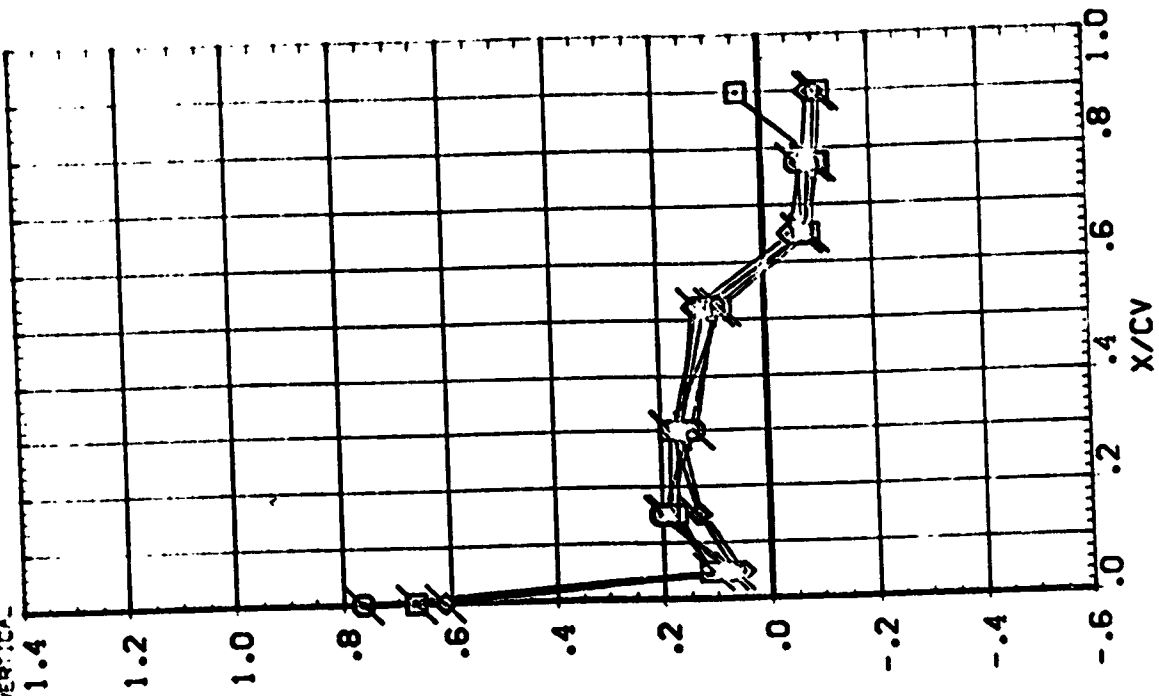
PARAMETRIC VALUES
 .000 .000 .000
 .000 .000 .000
 .000 .000 .000

BETAT
 RUDER
 RUFLR

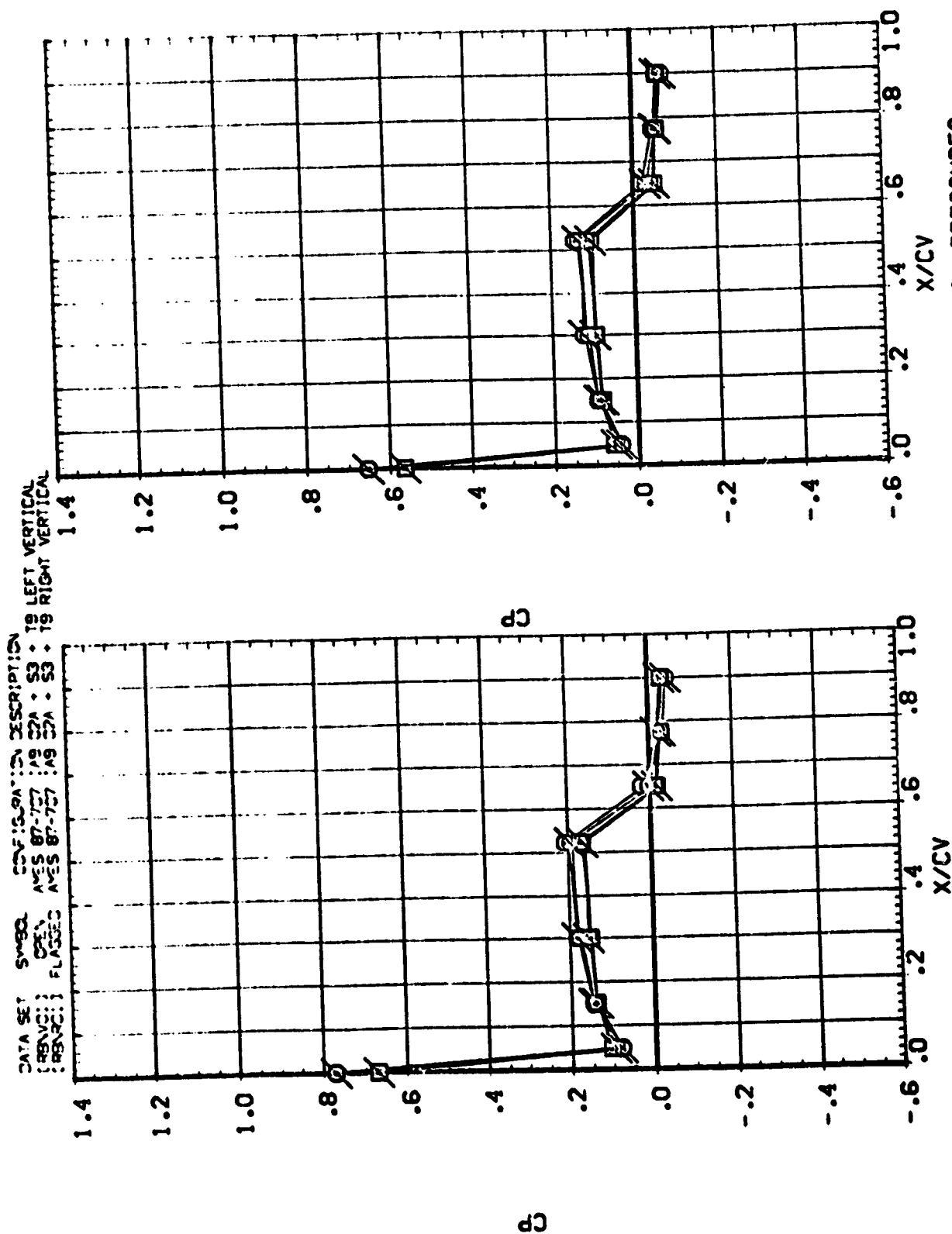
ALPHA 2.498
 -4.03C
 .000

SYNCH Z/BV
 .158
 .316
 .600

DATA SET: SYMBO CONFIGURATION DESCRIPTION
 : REAR: OPEN AYES 87-707 : A9 C2A : S3 : 19 LEFT VERTICAL
 : REAR: FLAGGED AYES 87-707 : A9 C2A : S3 : 19 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



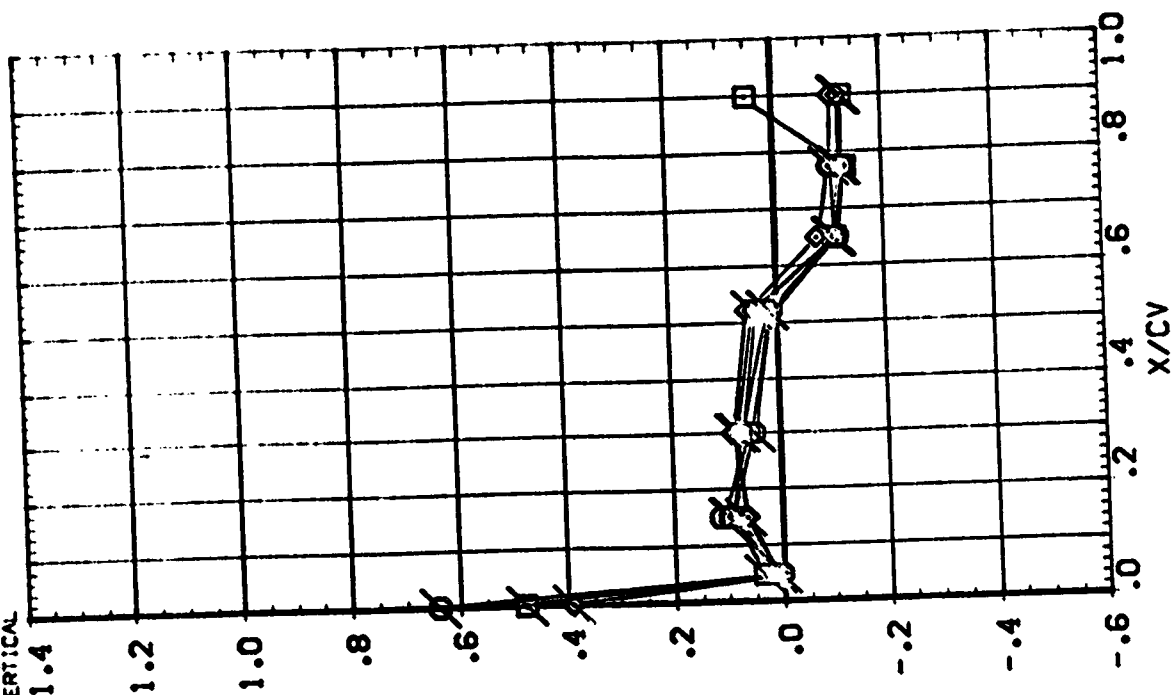
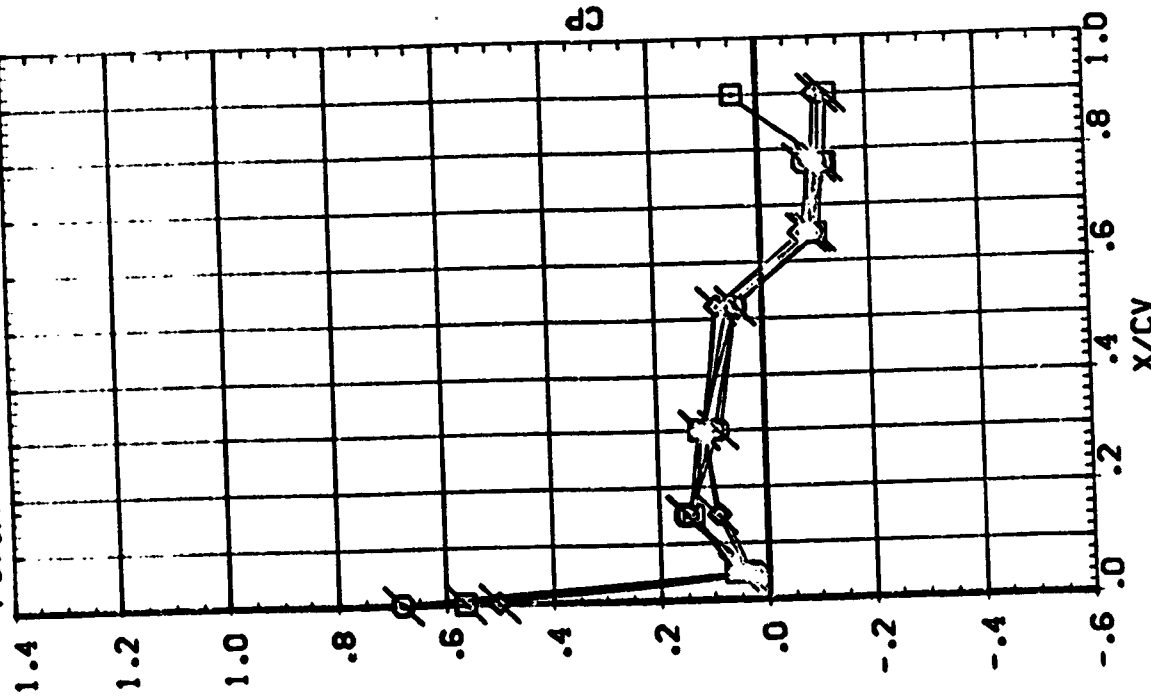
CHOROWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL Z/BV
 0110
 .158
 .316
 .600

ALPHA WACH
 3.900 7.498
 8.010

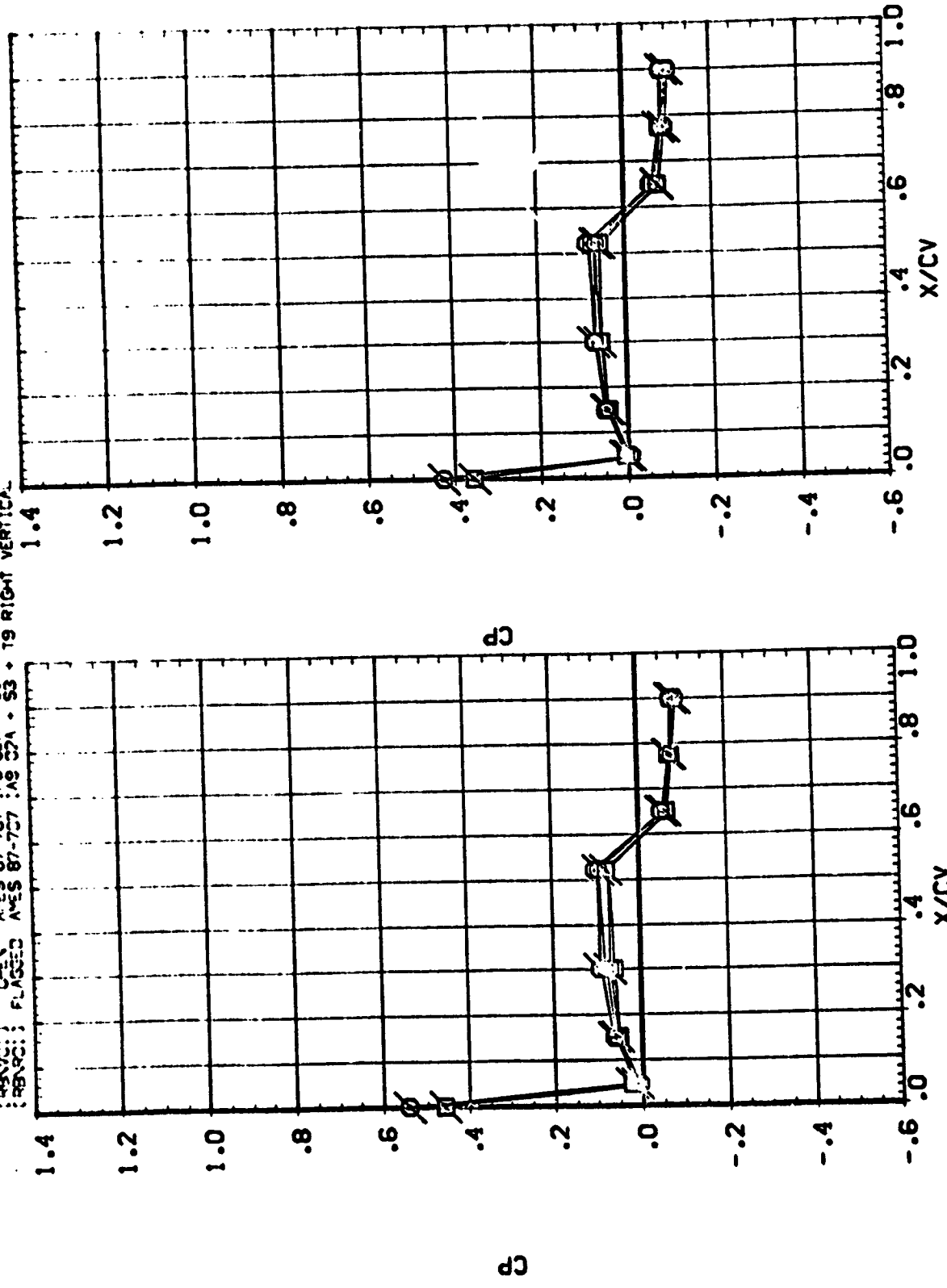
PARAMETRIC VALUES
 BETA1 .000
 RUDER .000
 RUDLP .000
 DRBINC .500
 ELEVON .000

DATA SET SYMBOL DESCRIPTION
 :RENO11 OPEN ASES 87-757 :A9 C2A : S3 : 19 LEFT VERTICAL
 :RENO11 FLAGGED ASES 87-757 :A9 C2A : S3 : 19 RIGHT VERTICAL



SYMBOL: 7/31 .84C .925
 ALPHA: 3.900 8.010
 WASH: 7.498
 BEVA: .000 .000 .000
 RUDDER: .000 .000 .000
 ROTLR: .000 .000 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBNVC): OPEN AYES 87-707 : A9 C2A : S3 : T9 LEFT VERTICAL
 (RBNVC): FLAGGED AYES 87-707 : A9 C2A : S3 : T9 RIGHT VERTICAL

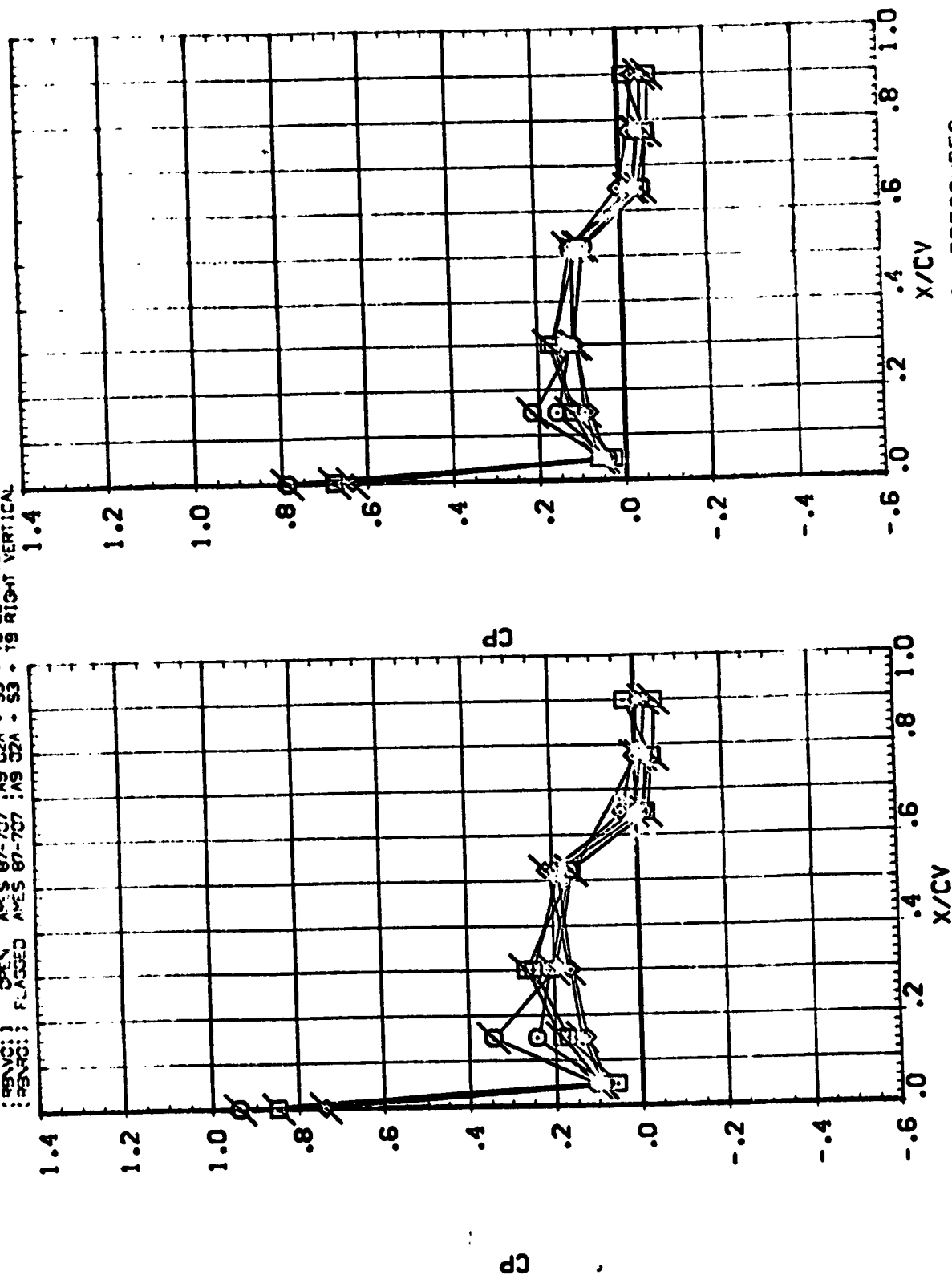


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

BETA: .000
 RUDER: .000
 ROLL: .000
 DYNAMIC PRESSURE: 10.000
 ALTITUDE: 10000
 SPEED: 1000

SYM: 0.31
 ALPHA: 4.070
 MACH: 2.999
 .158
 .316
 .632

DATA SET: SYMBOL CONFIGURATION DESCRIPTION
 : FBVCI: OPEN AMES 87-707 : A9 C2A : S3 : T9 LEFT VERTICAL
 : FBVCI: FLAPPED AMES 87-707 : A9 C2A : S3 : T9 RIGHT VERTICAL

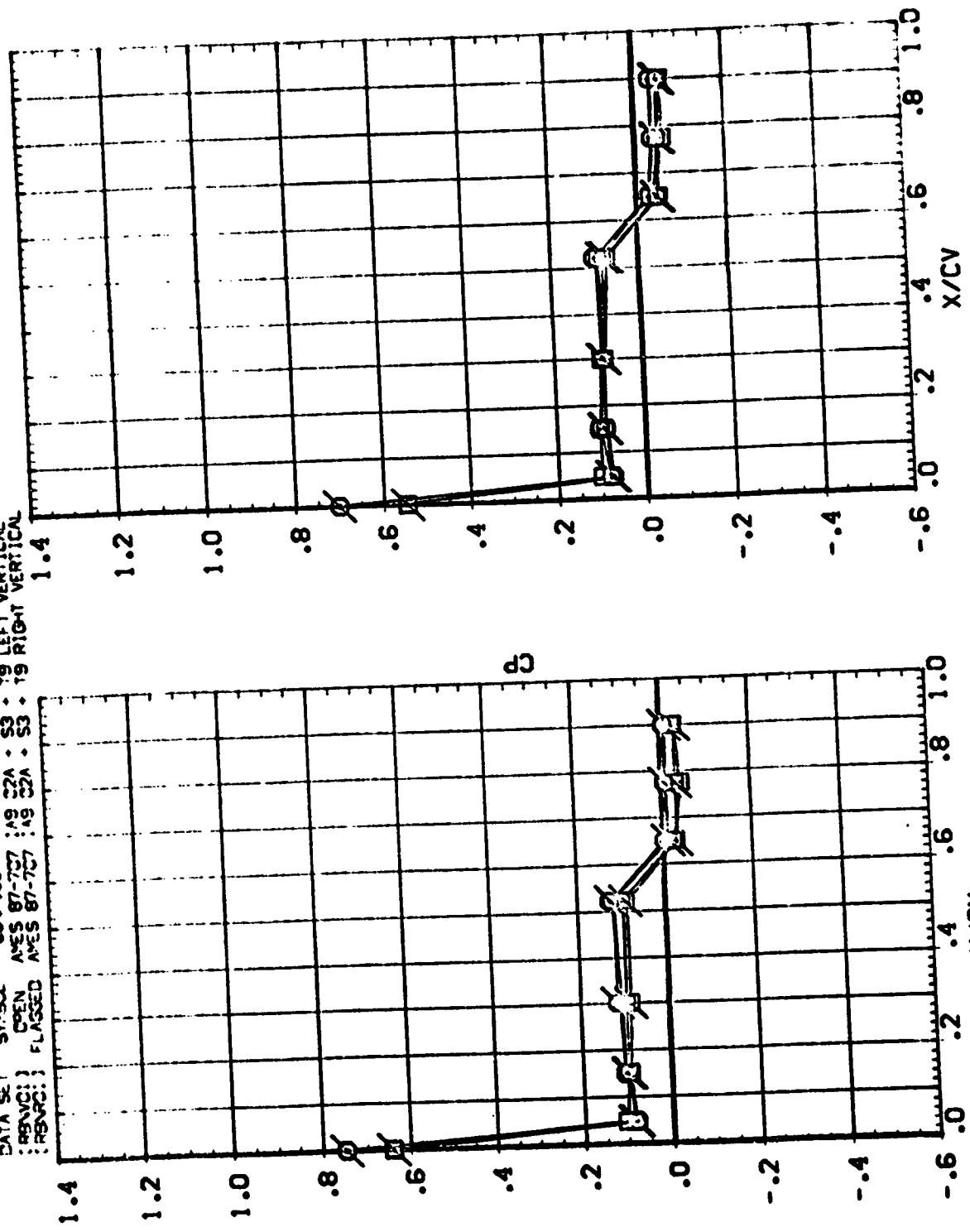


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

UNIT
 RUDER
 RUDER
 .000
 .000
 .000
 .000

S-432 2/87
 .842
 .925
 ALPHAT
 -4.070
 .310
 WAC-
 2.999

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 :RBNVC1: OPEN ASES 87-707 :A9 :2A : S3 : 19 LEFT VERTICAL
 :RBNRC1: FLAGGED ASES 87-707 :A9 :2A : S3 : 19 RIGHT VERTICAL



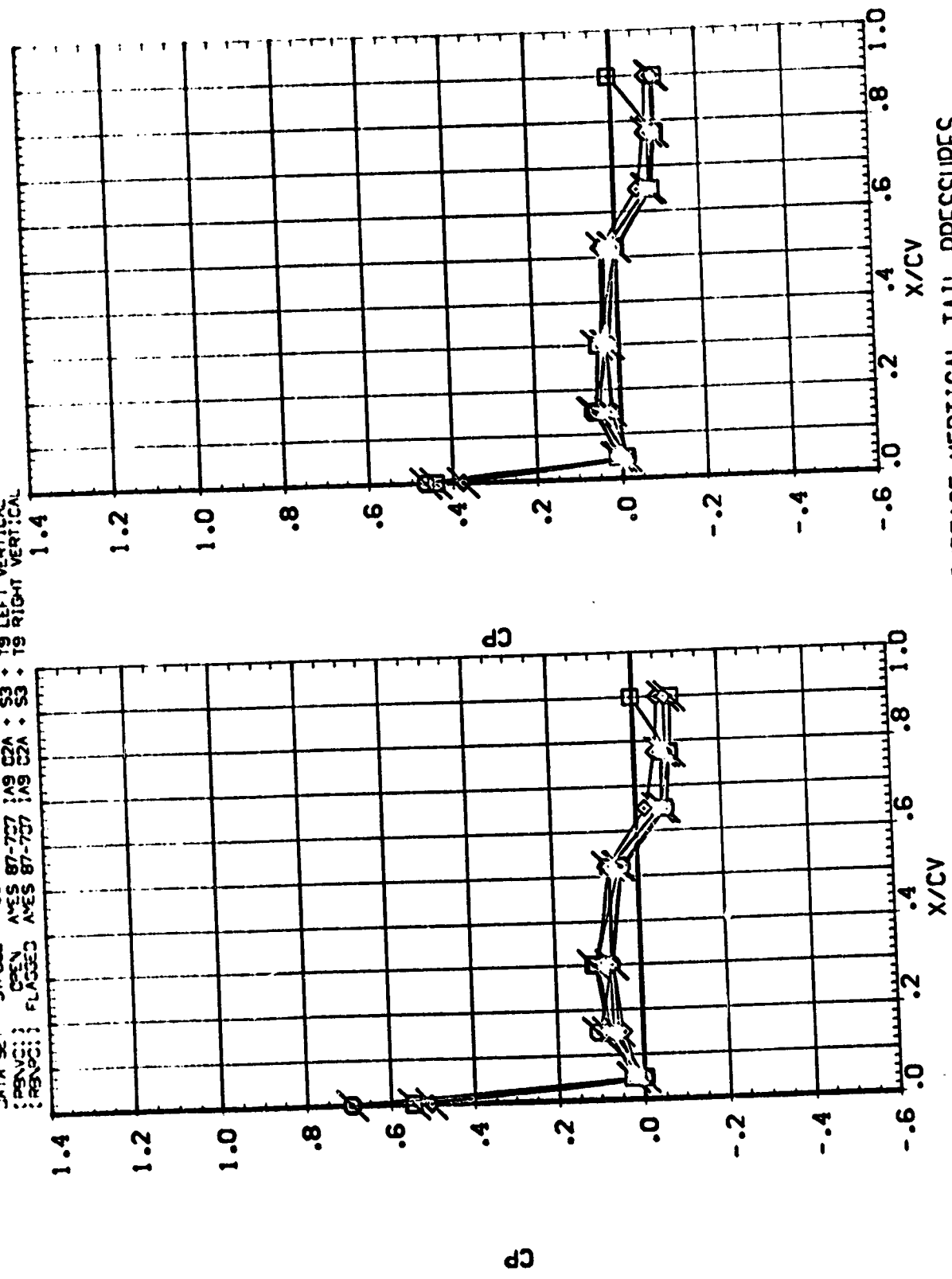
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES
 877

III

SYNCH- Z/3V .158 .316 .600
 ALPHA* 3.95C 8.00C
 WAC- 2.999

PARAMETRIC VALUES
 BETAT .000 .000 .000
 RLODER .000 .000 .000
 RLOFLR .000 .000 .000

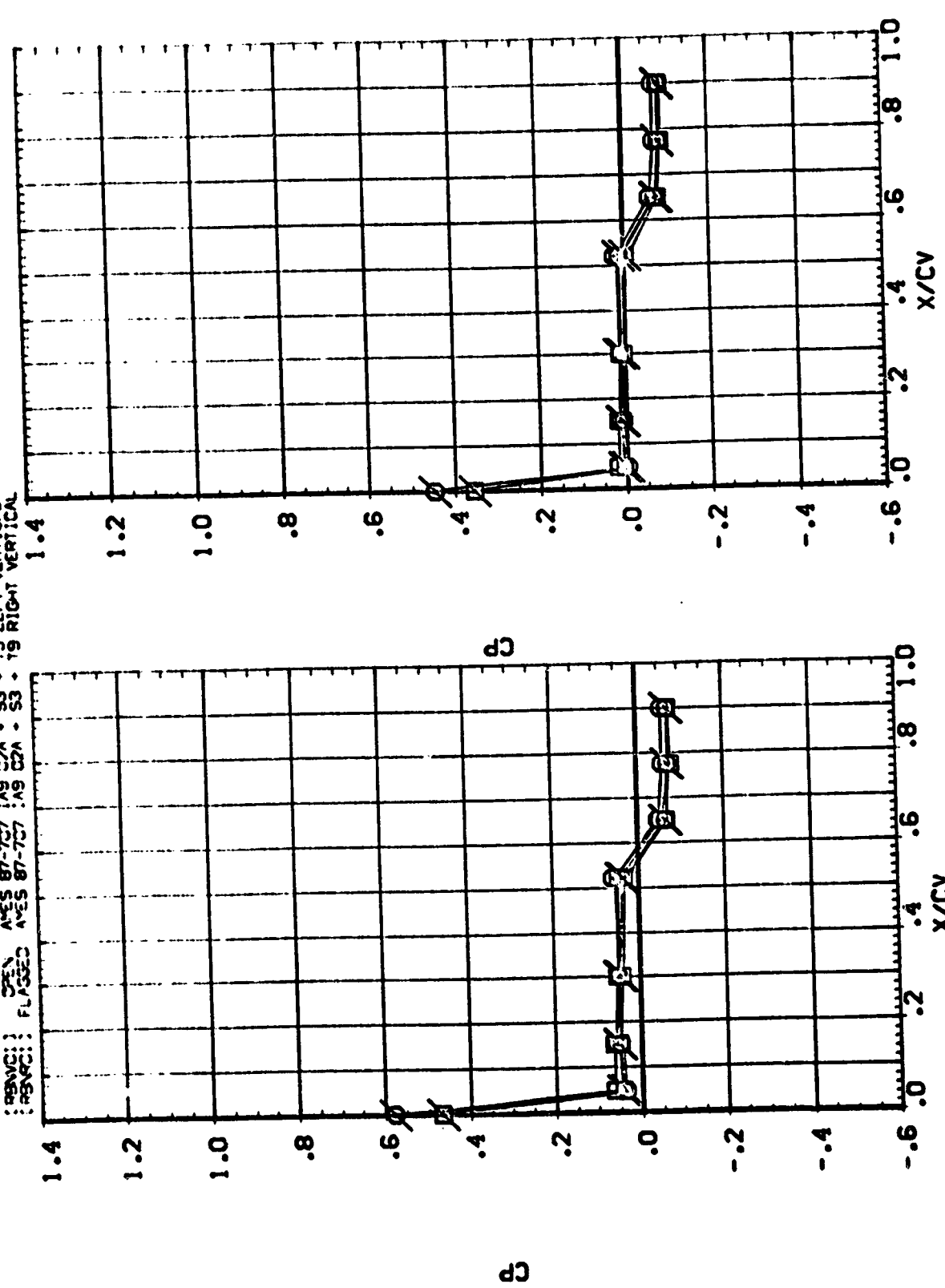
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 :PSNVC: OPEN AXES 87-707 1A9 C2A : S3 : T9 LEFT VERTICAL
 :PSNVC: FLAGGED AXES 87-707 1A9 C2A : S3 : T9 RIGHT VERTICAL



UNCLASSIFIED
 DATE 01-01-2001
 BY SP-10
 ELEVATION
 .000
 .000
 .000
 .000

SYMBOL Z/B
 .04C
 .075
 .000
 .000
 .000
 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 : 88VNC1 : OPEN ASES 87-707 : AS 07A : S3 : 19 LEFT VERTICAL
 : 88VNC2 : FLAGGED ASES 87-707 : AS 07A : S3 : 19 RIGHT VERTICAL

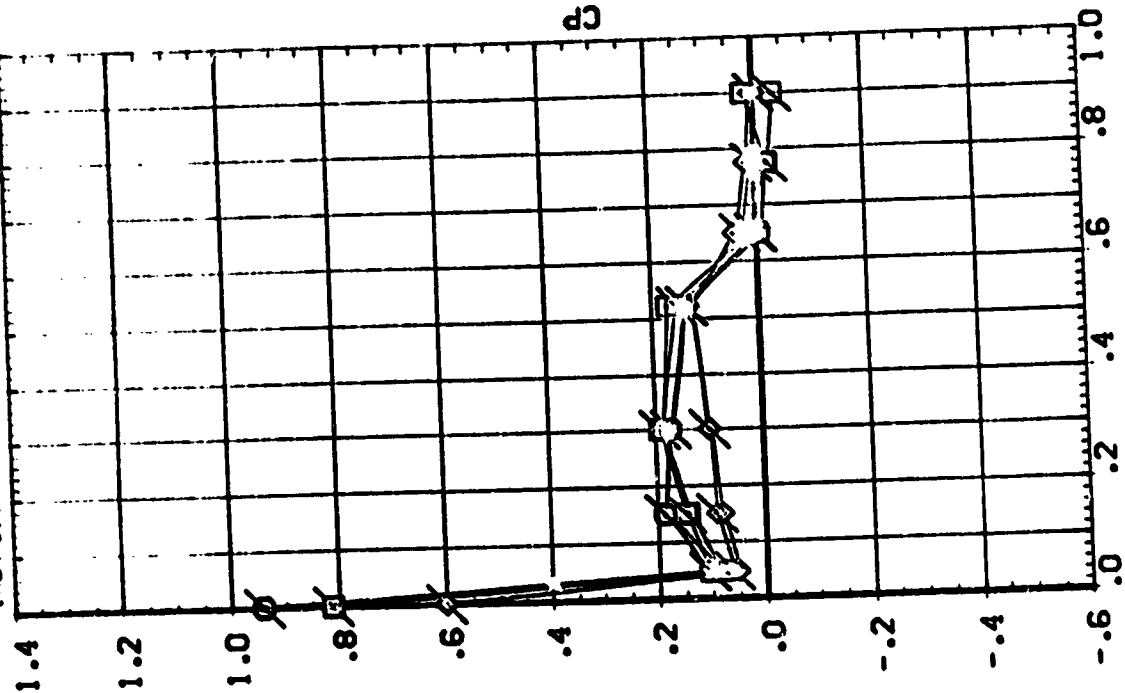


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES
 PAGE 824

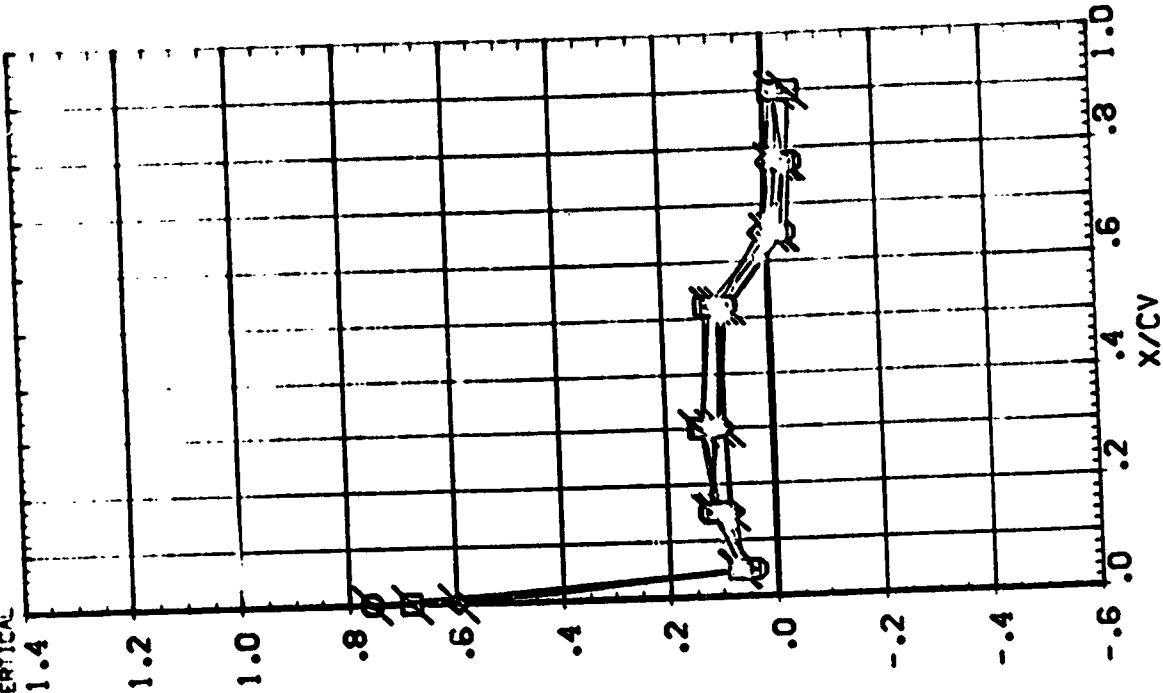
SYMBOL Z/BV ALPHAI MACH
 .158
 .316
 .600

PARAMETRIC VALUES
 SEVA
 RUDER
 RUDER
 .000
 .000
 .000
 .000
 .000
 .000

DATA SET SYMBOL CONF: SUBSECTION DESCRIPTION
 (REVISED) OPEN AYES 87-757 : A9 C2A : S3 : 19 LEFT VERTICAL
 (REVISED) FLAGGED AYES 87-757 : A9 C2A : S3 : 19 RIGHT VERTICAL

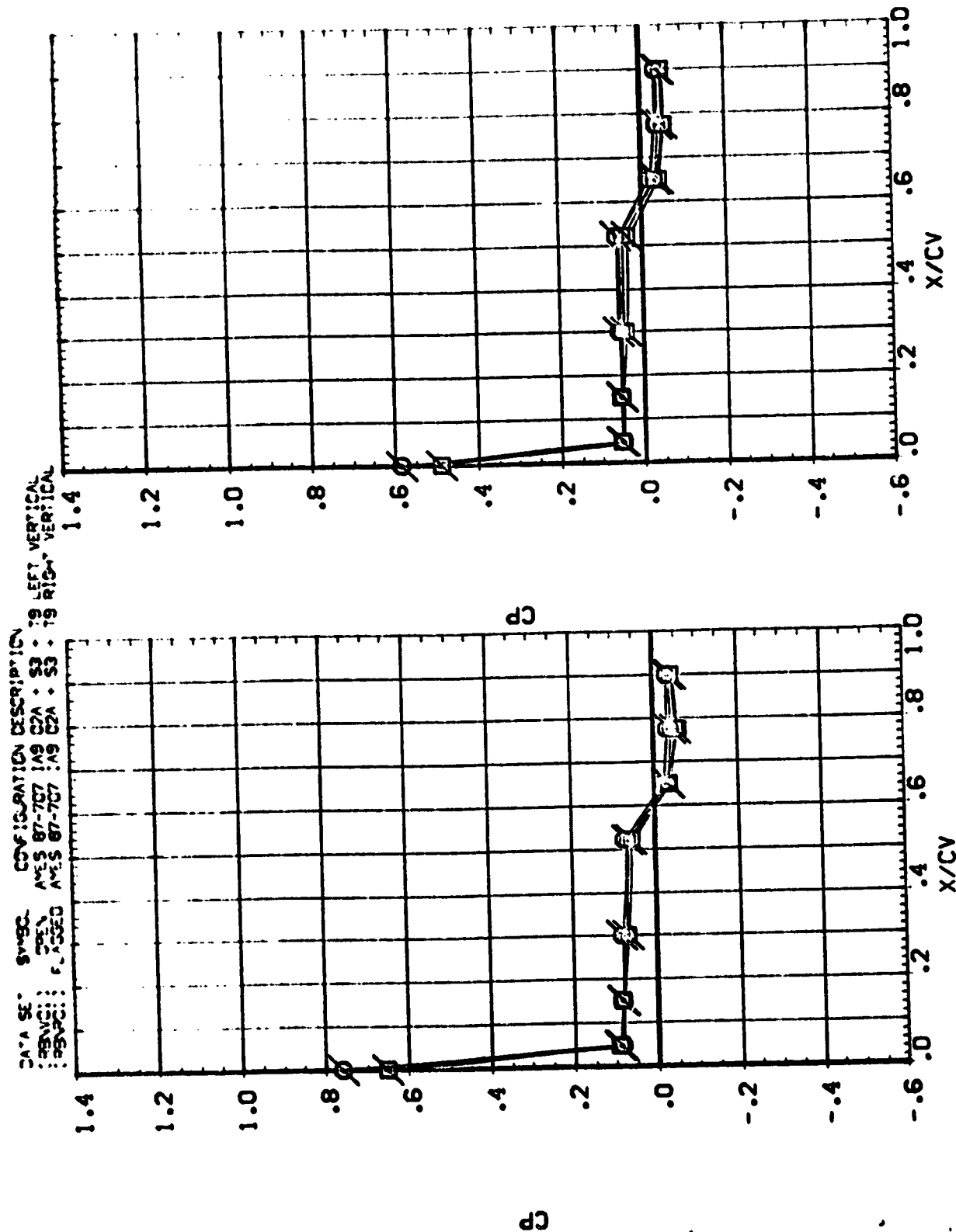


Q



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBO. 7/8N .84C .925
 P.D.AT -4.07C
 WACH 3.507
 BETAT
 RUDDER
 RUDDLR
 PARAMETER VALUES
 .000 .000 .000 .000
 .000 .000 .000 .000



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

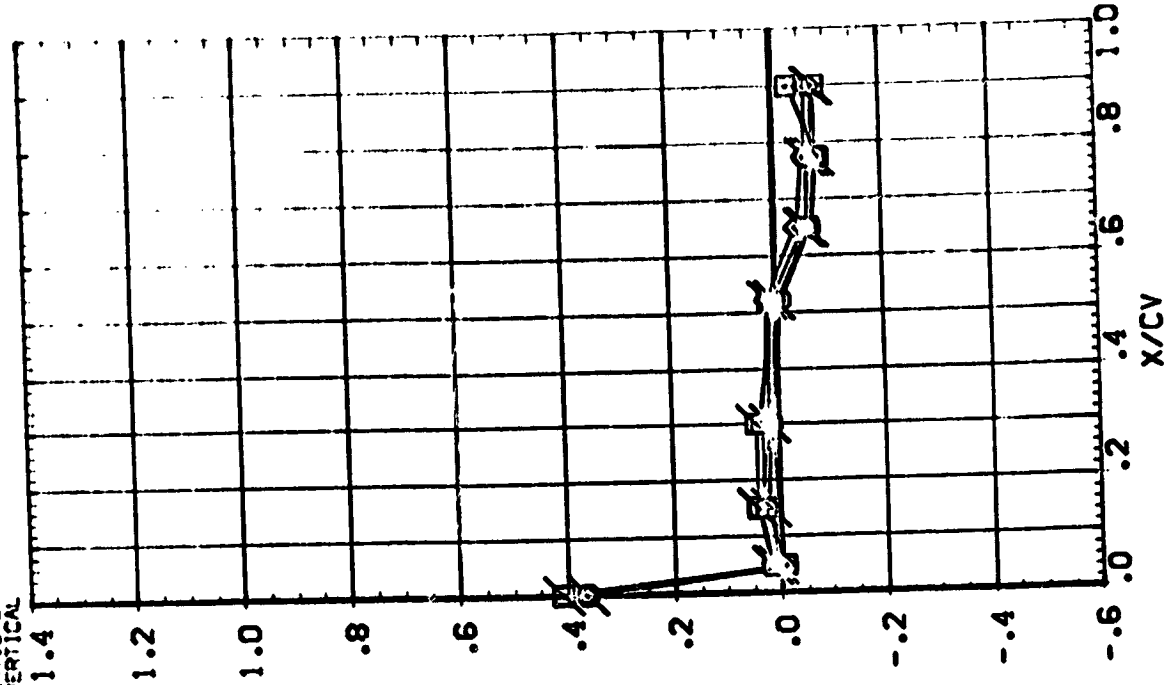
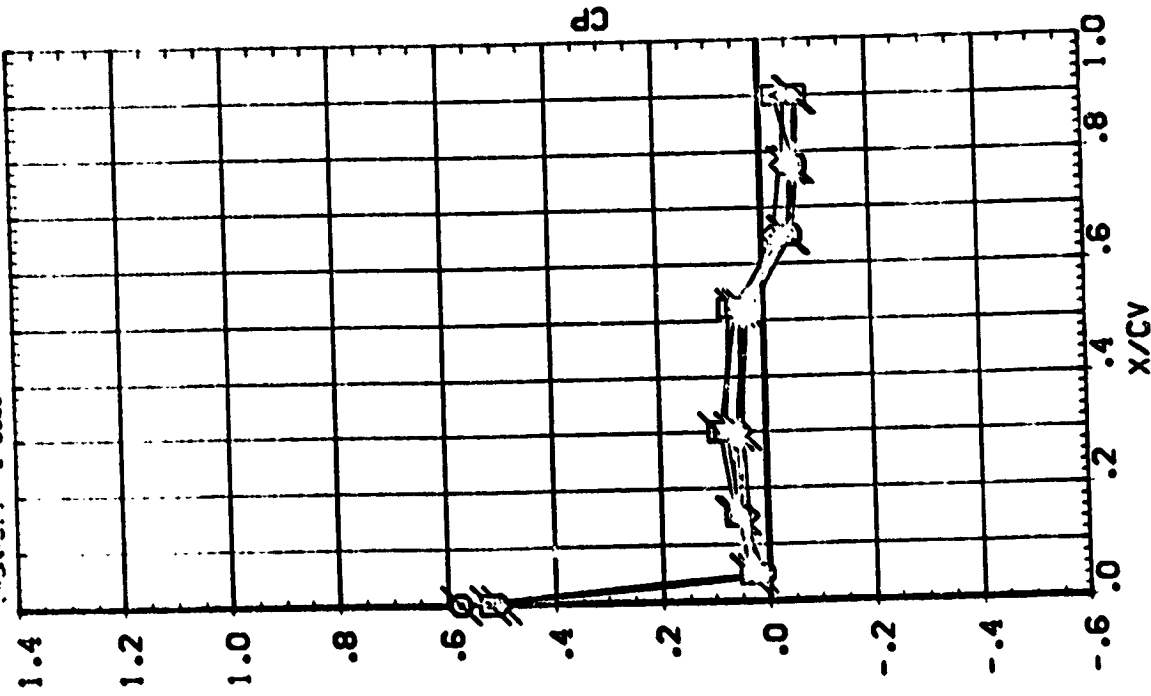
BETAT	.000	299.12	.500
RJDDER	.000	ELEVEN	.000
RJDDLR	.000		

SYNCH 2/3/

ALPHA	3.980	3.502
BETA	0.010	

DATA SET SYMBOL CONFIGURATION DESCRIPTION

88V01	OPEN	AVES 87-707	1A9 C2A + S3	T9 LEFT VERTICAL
88V02	FLASSED	AVES 87-707	1A9 C2A + S3	T9 RIGHT VERTICAL



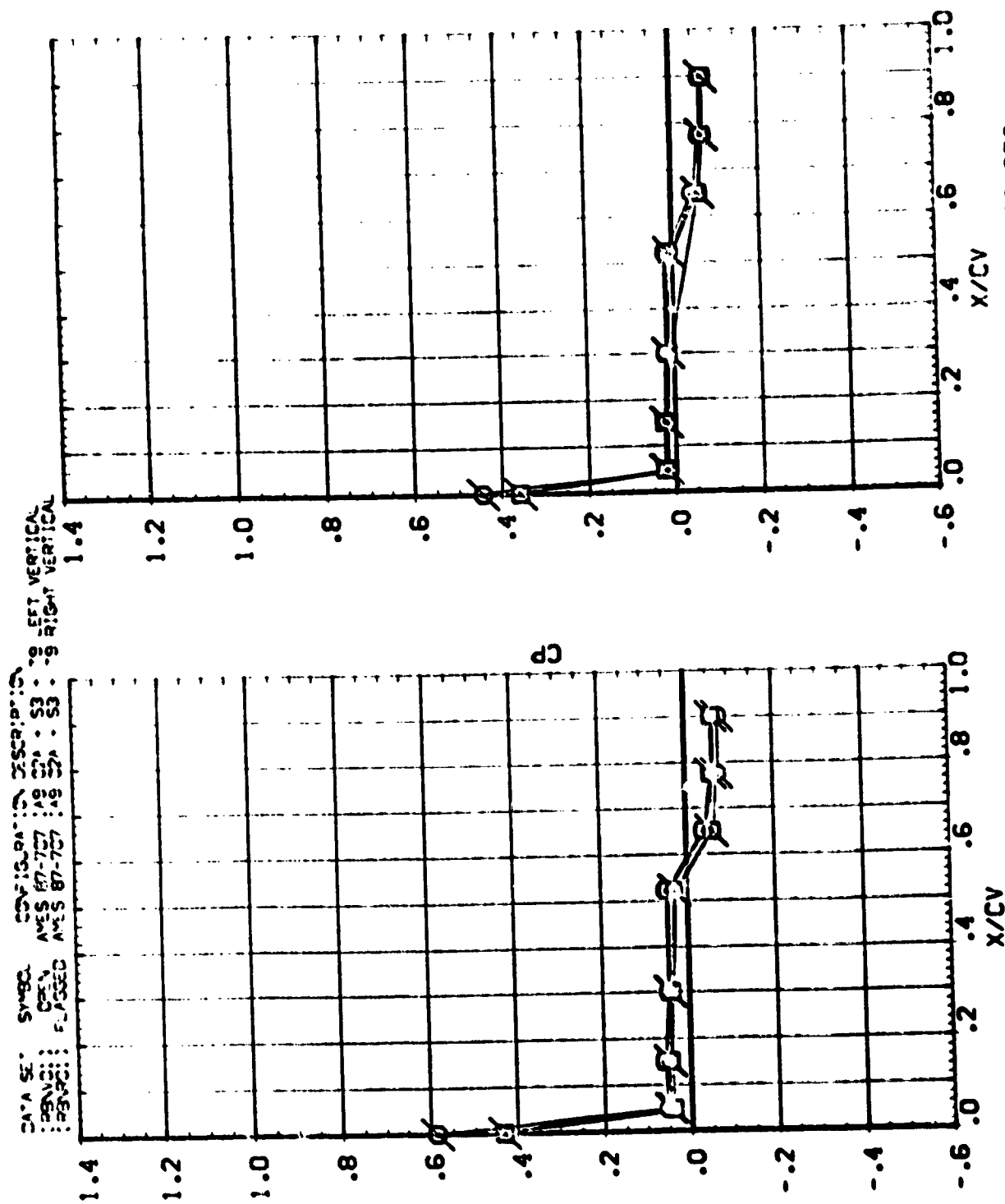
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

540
340
E/7 36.5

1.254	3.502
3.968	3.502
8.000	3.502

SECRET
EXCISE
NO. 38

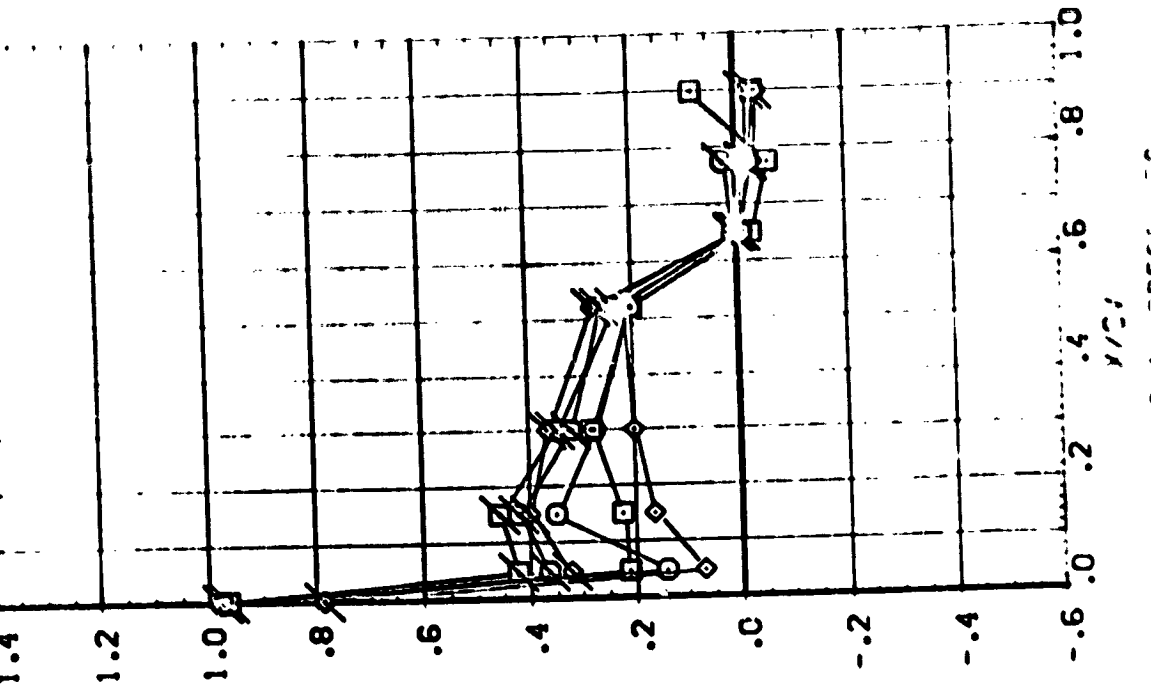
88
58
111



CHROMIUM DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

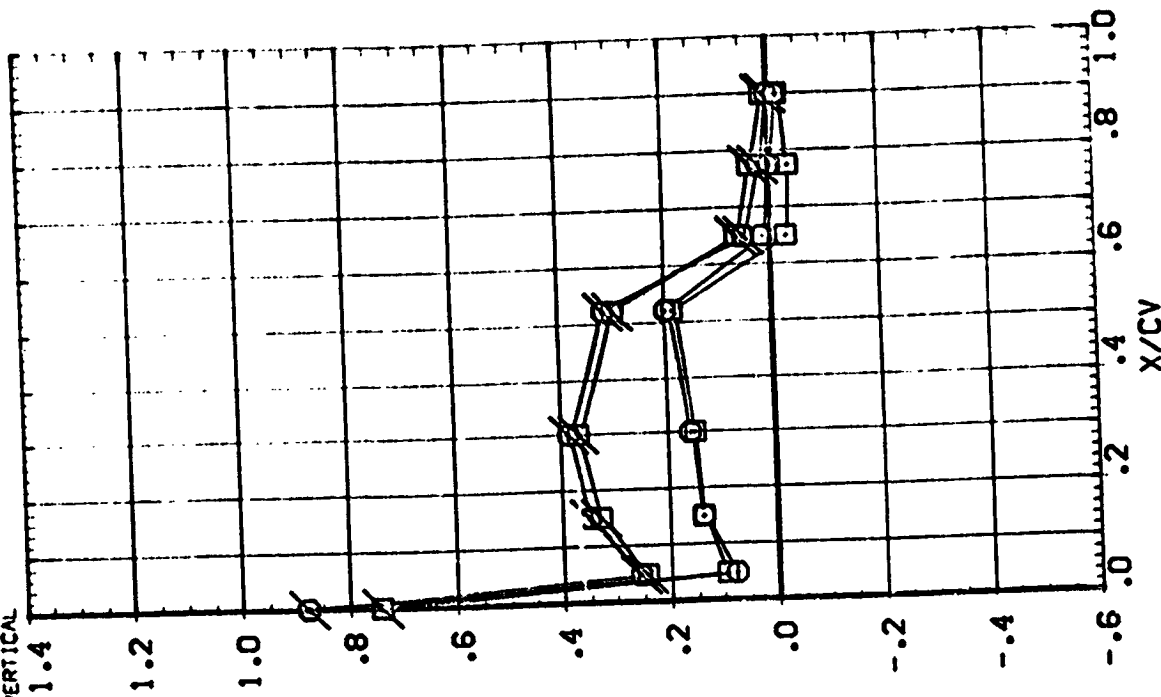
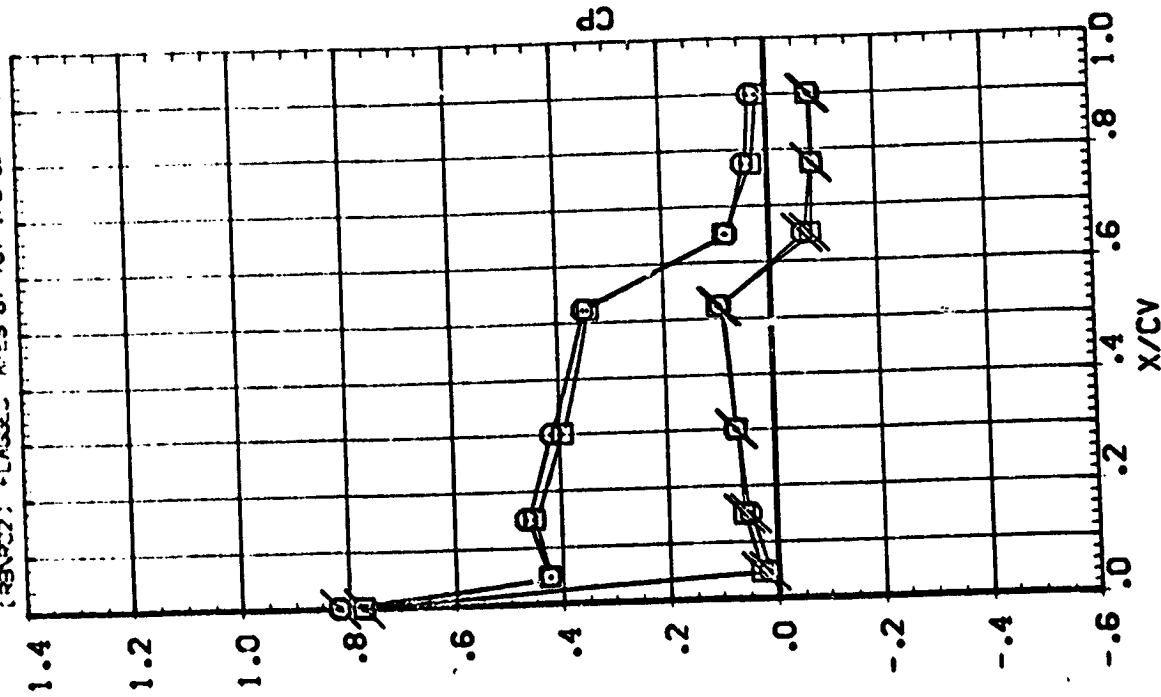
570
223

311
 36
 311
 311
 311

[illegible]

CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL AND HORIZONTAL PRESSURES

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBNV2) OPEN AMES 87-707 : A9 C2A : S3 : T9 LEFT VERTICAL
 (RBNV2) FLAGGED AMES 87-707 : A9 C2A : S3 : T9 RIGHT VERTICAL

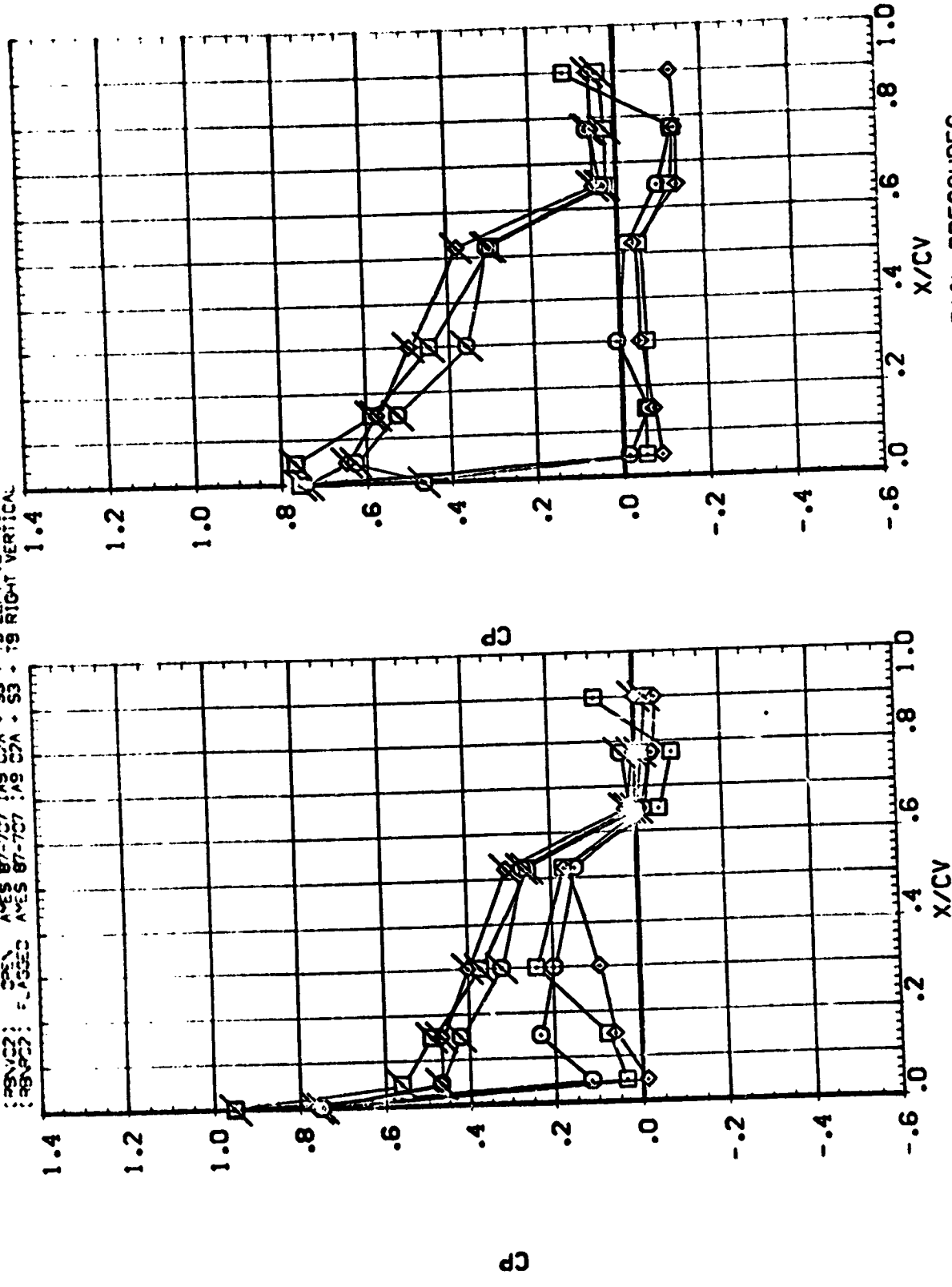


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES
 -0.000 0.000 0.000
 ALPHA 0.000
 RUDDER 0.000
 RUDDER 0.000

SYMBOL 7/31 3E7 4.322 2.498
 .158
 .316
 .600

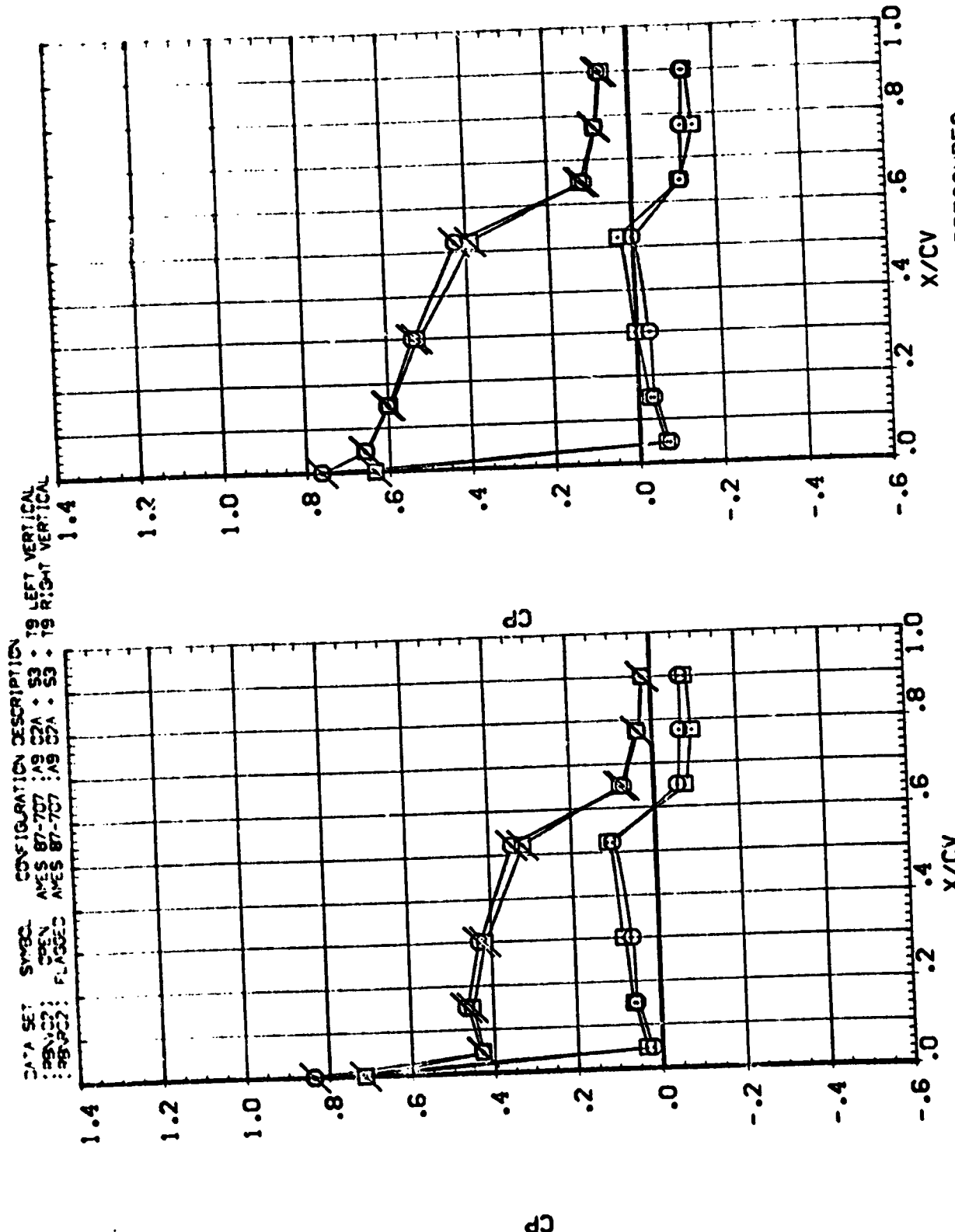
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (R) (V) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14) (15) (16) (17) (18) (19) (20)
 (R) (V) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14) (15) (16) (17) (18) (19) (20)



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

ALPHAT
 RUDDER
 RUDDER
 -0.000
 0.000
 0.000
 0.000

SYSC 7/3/84
 BEAT 4.370
 MACH 7.498
 0.940
 0.975



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

ALPHA	-8.000	0.000	.500
RUDER	.000	.000	.000
RUDER	.000	.000	.000

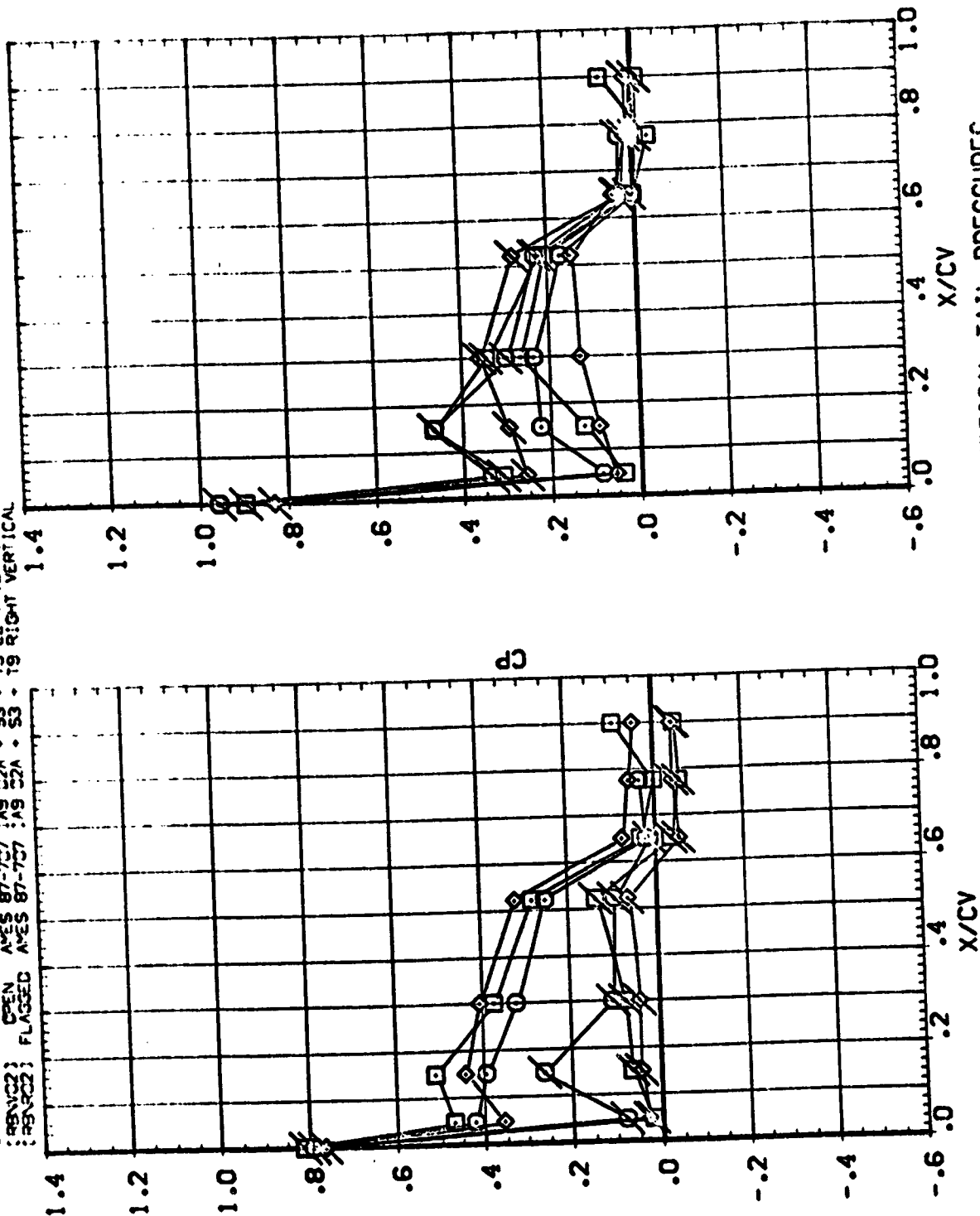
SYSC. Z/B

BETAT	-4.250	2.999
VAC	2.230	

.150
 .316
 .600

DATA SET SYMBOL CONFIGURATION DESCRIPTION

RENOV2	OPEN	AVES 87-707	AS 22A	S3	19 LEFT VERTICAL
RENOV2	FLANGED	AVES 87-707	AS 22A	S3	19 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL: 1/3V
 .84C
 .925

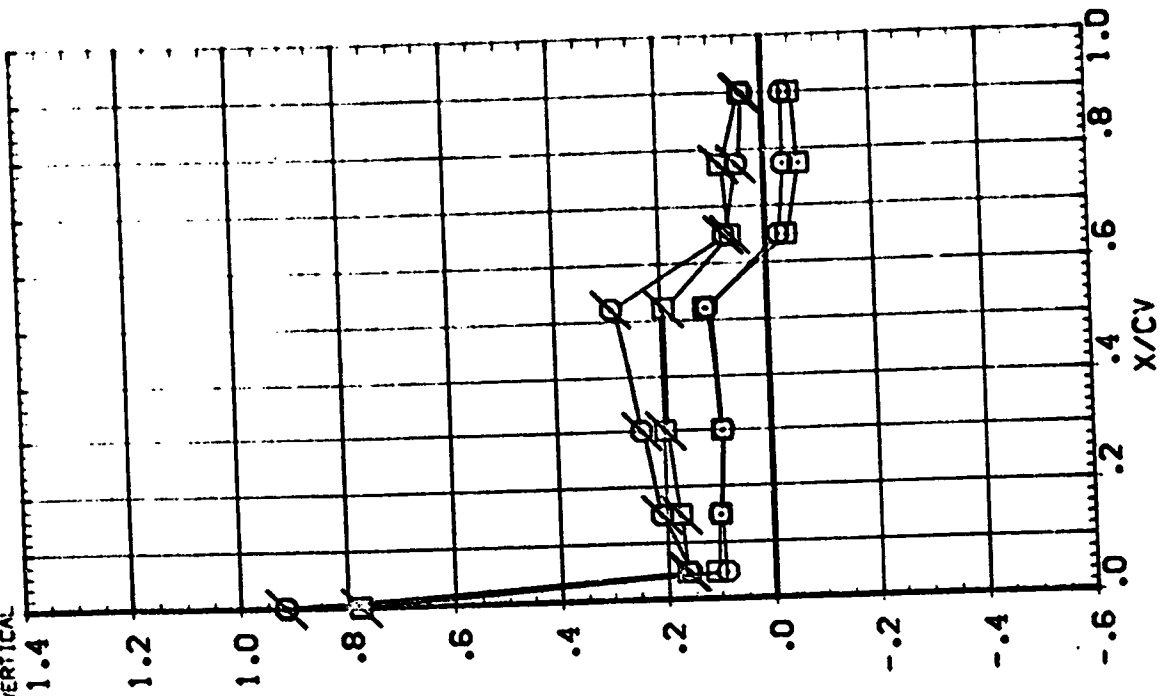
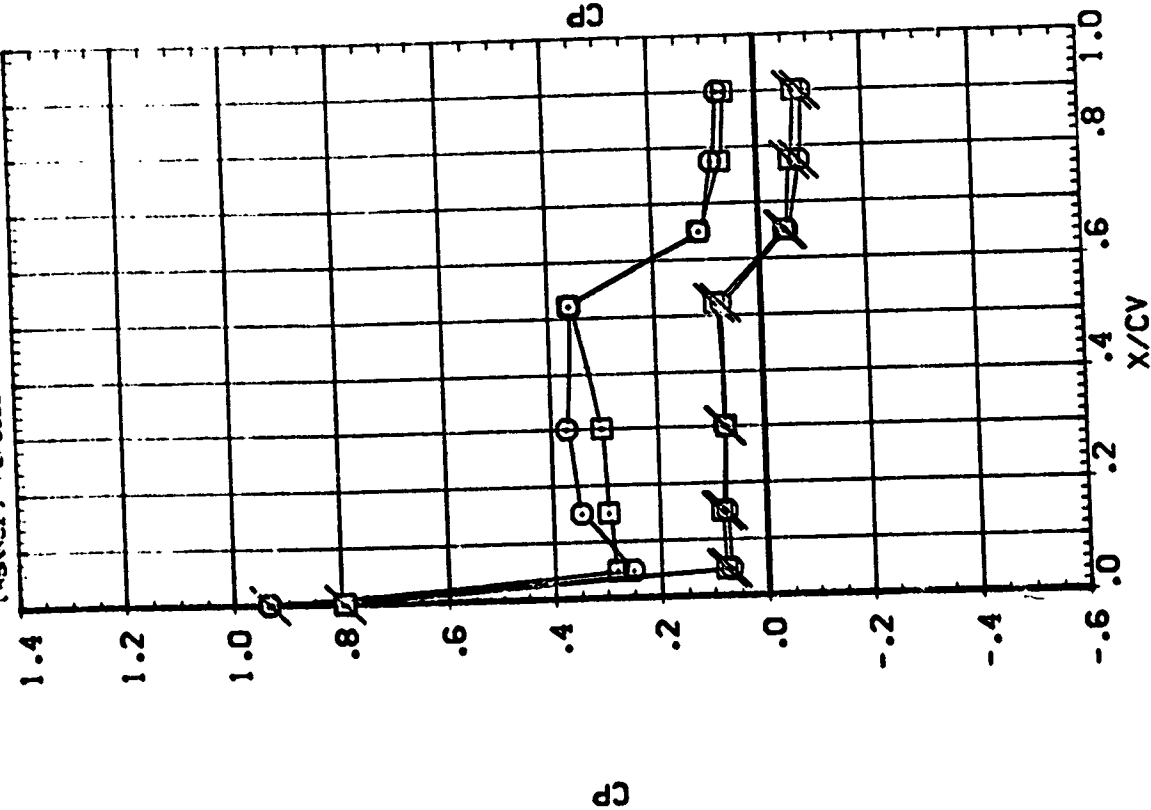
BETA:
 -4.750
 2.730

MACH
 2.999

PARAMETRIC VALUES
 ALPHAT: .500
 -8.000
 .991NC
 RUDDER: .000
 .000
 RUDDER: .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION

[REMARK1] OPEN ASES 87-707 :AS 22A : S3 : 19 LEFT VERTICAL
 [REMARK2] FLAGGED ASES 87-707 :AS 22A : S3 : 19 RIGHT VERTICAL

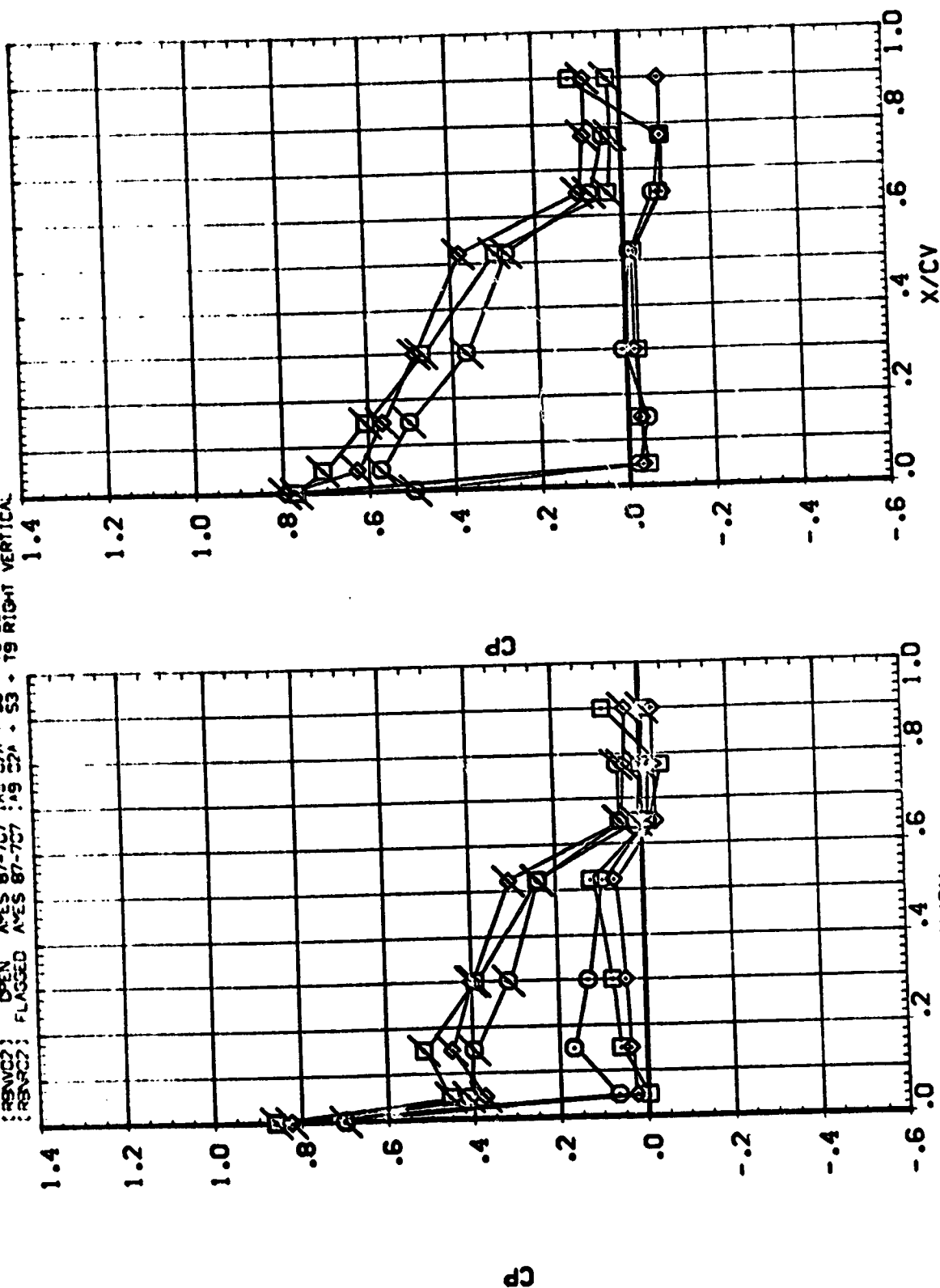


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL Z/BV BETAT MACH
 ○ .158 4.400 2.999
 □ .316 8.750
 ◇ .600

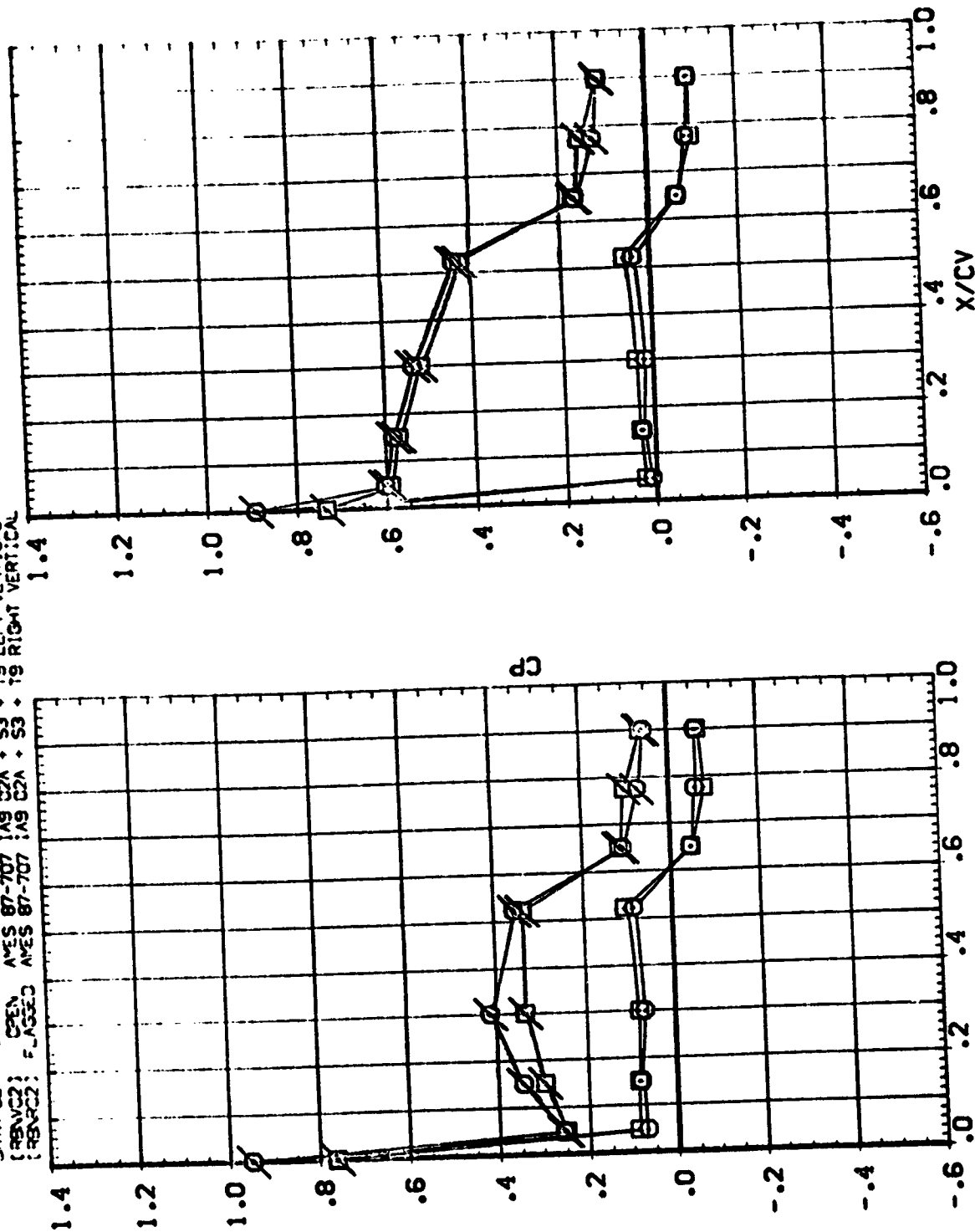
PARAMETRIC VALUES
 ALPHAT -8.000 299.14C
 RUDDER .000
 RUDF 2 .000
 ELEVON .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RENVIC2) OPEN AYES 87-707 :19 C2A : S3 : T9 LEFT VERTICAL
 (RENVIC2) FLAGGED AYES 87-707 :19 C2A : S3 : T9 RIGHT VERTICAL



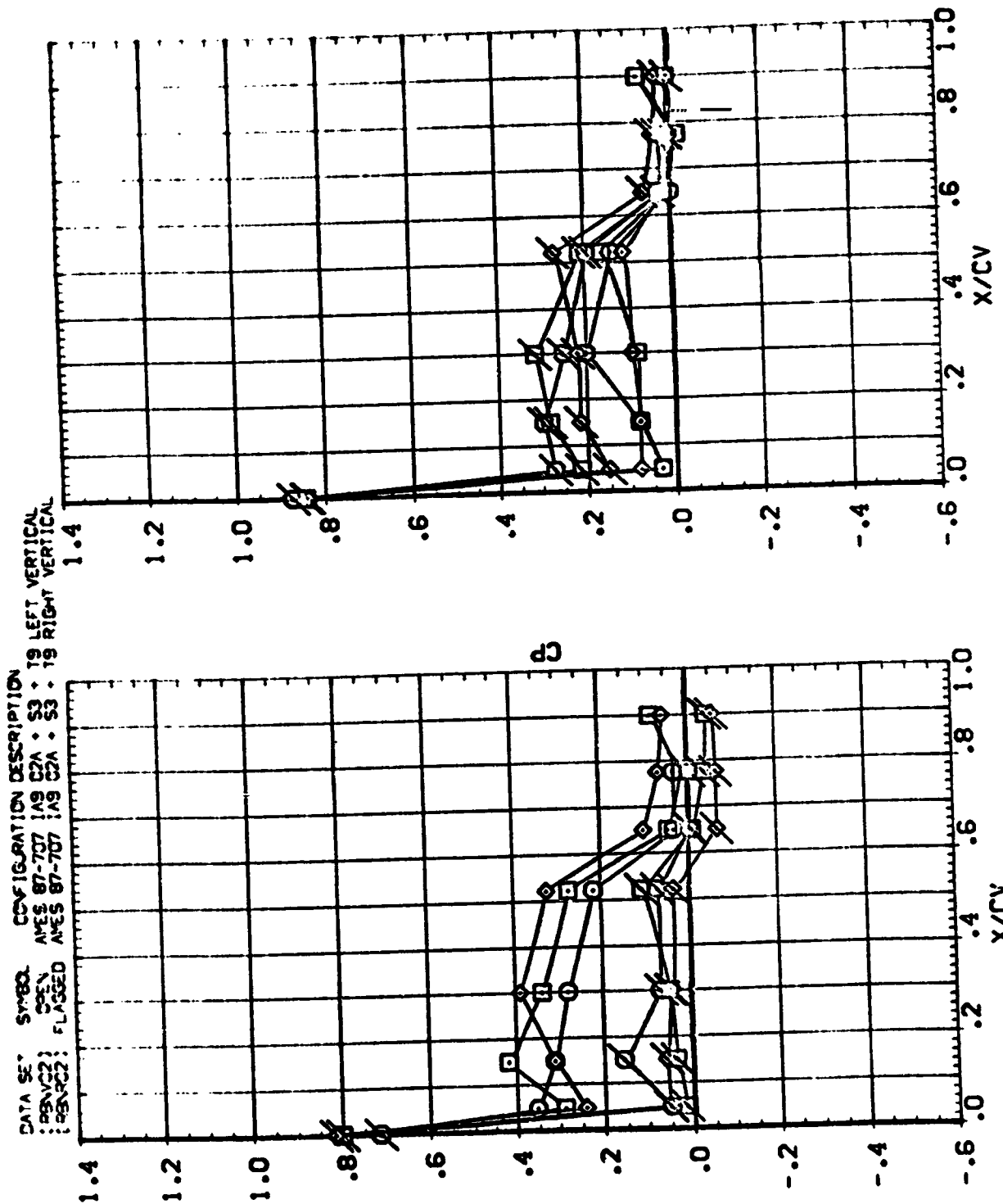
SYSC 2/3/ .84C .975
 100
 DATA SET SYMBOL CONFIGURATION DESCRIPTION
 [REACT] OPEN AVES 87-707 1A9 02A * S3 * 19 LEFT VERTICAL
 [REACT] FLANGED AVES 87-707 1A9 02A * S3 * 19 RIGHT VERTICAL
 4.400 2.999
 8.75C
 0.000 0.000
 0.000 0.000
 0.000 0.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 [REACT] OPEN AVES 87-707 1A9 02A * S3 * 19 LEFT VERTICAL
 [REACT] FLANGED AVES 87-707 1A9 02A * S3 * 19 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES
 ALPHA: -8.000 598.1 VC
 RUDDER .000 ELEVATION
 RUDDER .000



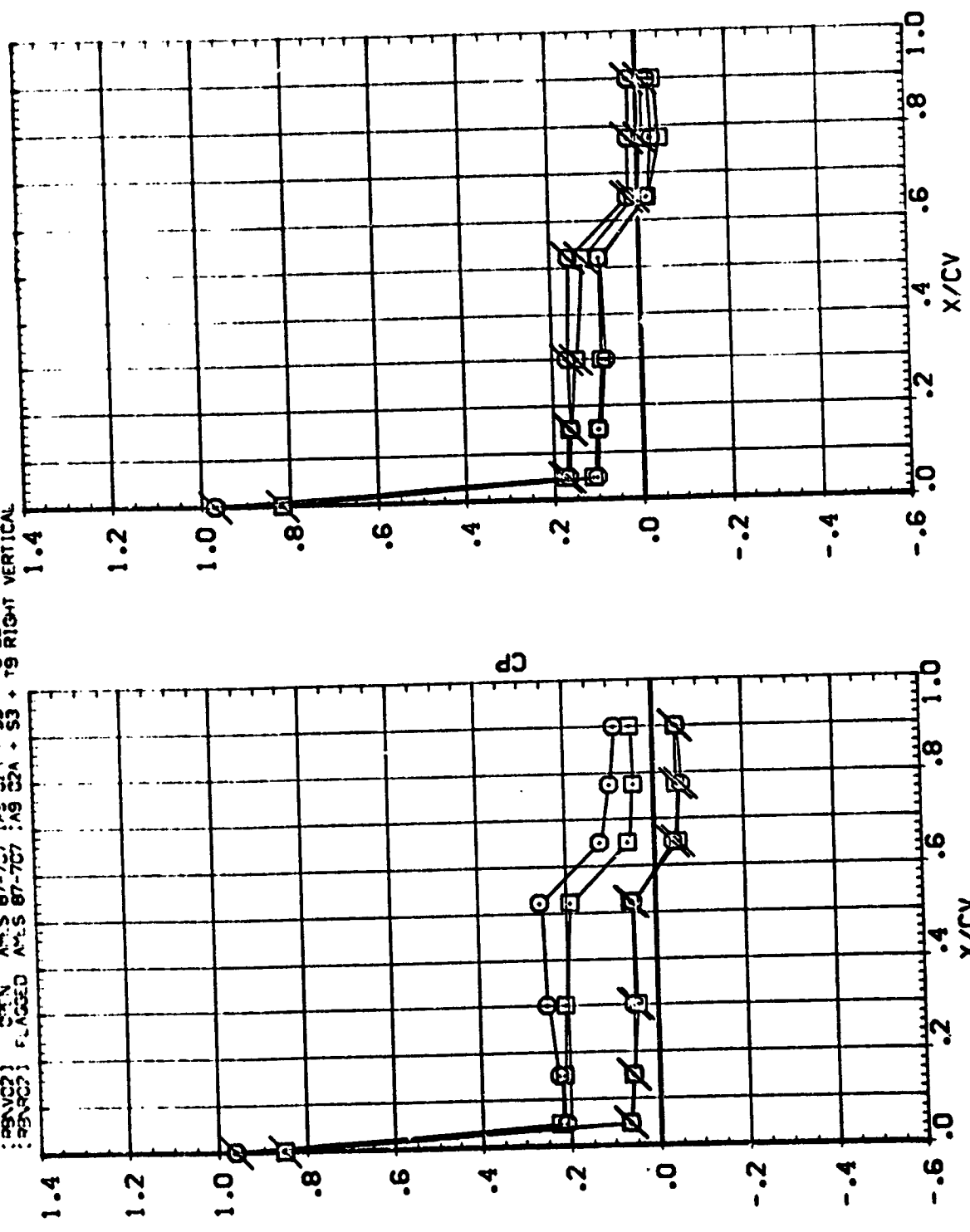
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 :P8V22: OPEN AYES 87-707 :A9 C2A : S3 : 19 LEFT VERTICAL
 :P8V22: FLAGGED AYES 87-707 :A9 C2A : S3 : 19 RIGHT VERTICAL

SYMBOL Z/B/ BETA: WACH
 :158 -4.330 3.502
 :316 2.760
 :600

U
 ROWER
 ROWER
 ELEV
 ELEV

.04C
 .925
 -4.33C
 2.26C
 3.507

DATA SET: SYMBO: CONFIGURATION DESCRIPTION
 : 88AUC2 : CRYN: AMES 87-707 : AS 32A : S3 : T9 LEFT VERTICAL
 : 88AUC2 : FLAGGED: AMES 87-707 : AS 32A : S3 : T9 RIGHT VERTICAL



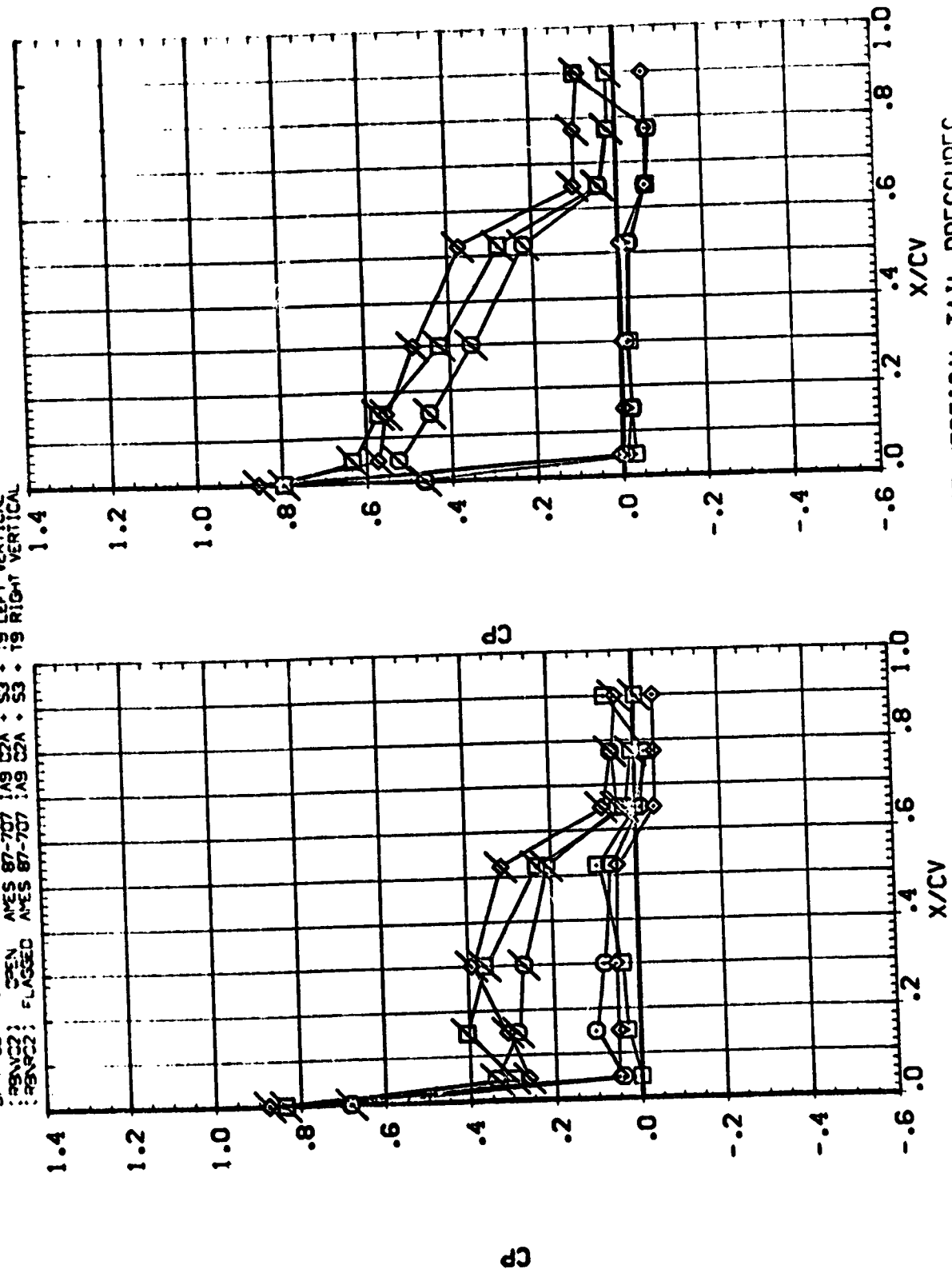
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

==

SYMBOL 7/31 BE "A" "AC" 3.502
 0.58 4.48C
 0.36 0.91C
 0.60C

PARAMETRIC VALUES
 ALPHAAT 0.000 0.000 0.000
 RUDER 0.000 0.000 0.000
 RUOTLR 0.000 0.000 0.000

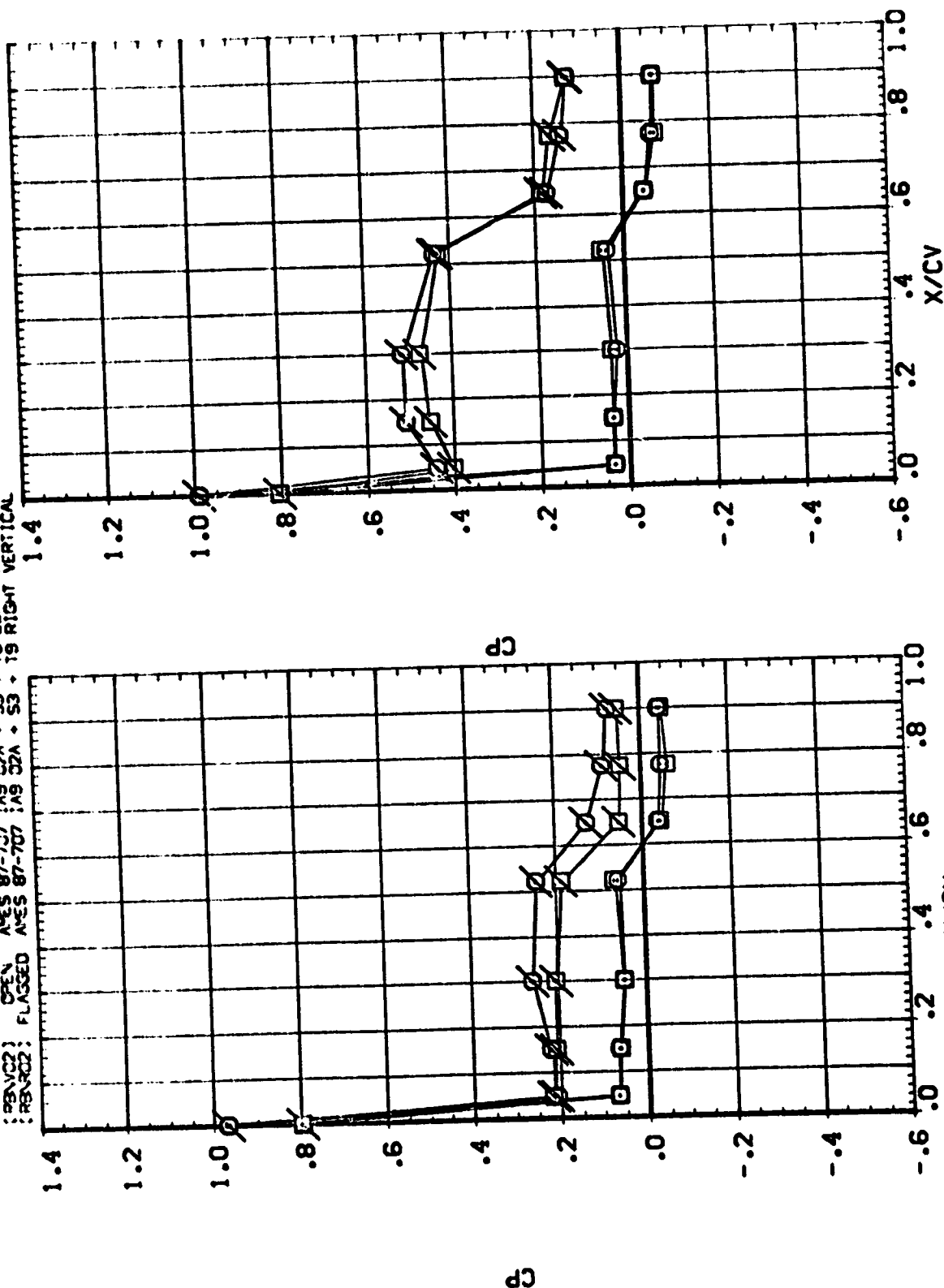
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 :RBNV21 OPEN AVES 87-707 :A9 C2A + S3 + T9 LEFT VERTICAL
 :RBNV22 FLAGGED AVES 87-707 :A9 C2A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

Year	1977	1978	1979	1980	1981	1982
Value	1.84C	1.48C	0.91C	0.97C	0.91C	0.97C

DATA SET	SYMBOL	CONFIGURATION	DESCRIPTION
PERV02	OPEN	A9S 87-707	A9 C7A * S3 * 19 LEFT VERTICAL
PERV02	FLASSED	A9S 87-707	A9 C7A * S3 * 19 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PAGE: 840

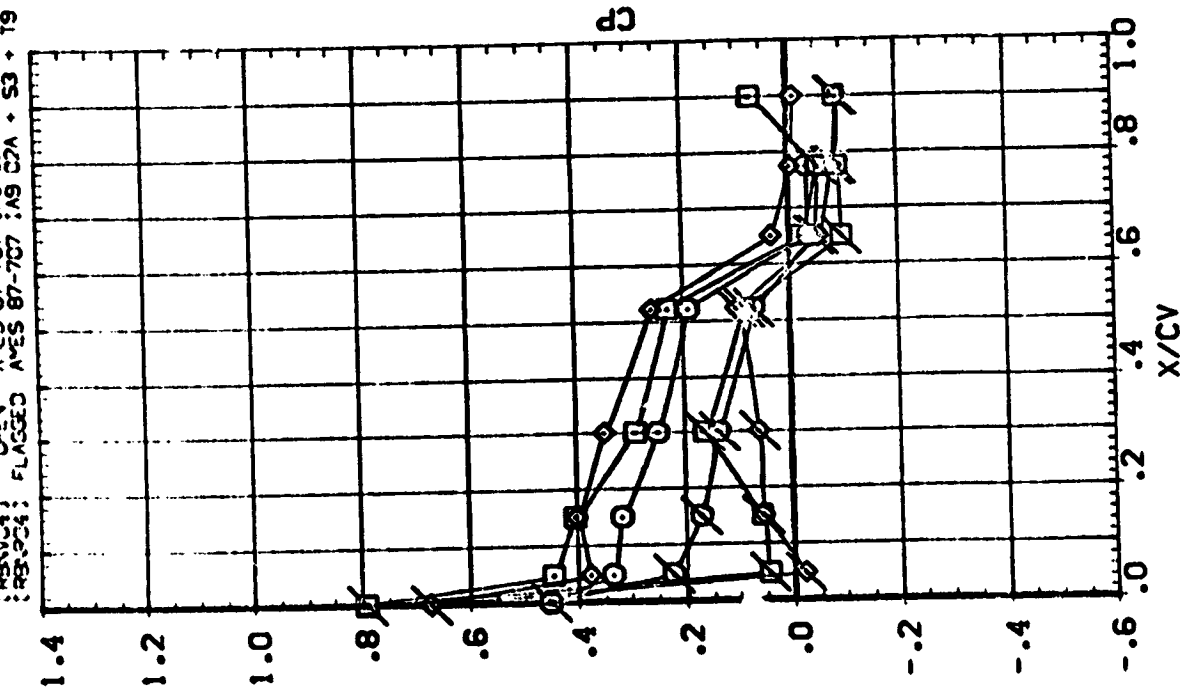
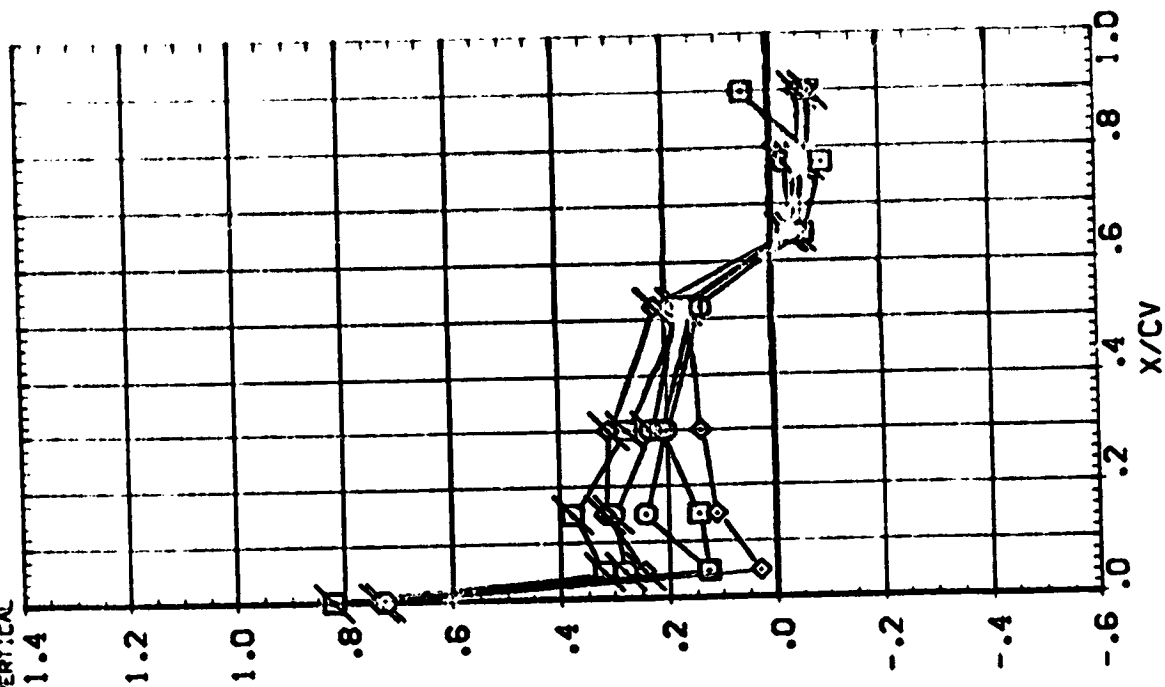
SYNCH
Z/BV
.158
.316
.600

BETA
-4.90
2.80

MACH
2.498

PARAMETRIC VALUES
ALPHAT
-4.000
.000
.000
RODDE
ELEVON
RUDFLR

DATA SET SYMBOL CONFIGURATION DESCRIPTION
[REMOVED] OPEN AXES 87-707 1A9 02A * S3 * T9 LEFT VERTICAL
[REMOVED] FLAGGED AXES 87-707 1A9 02A * S3 * T9 RIGHT VERTICAL

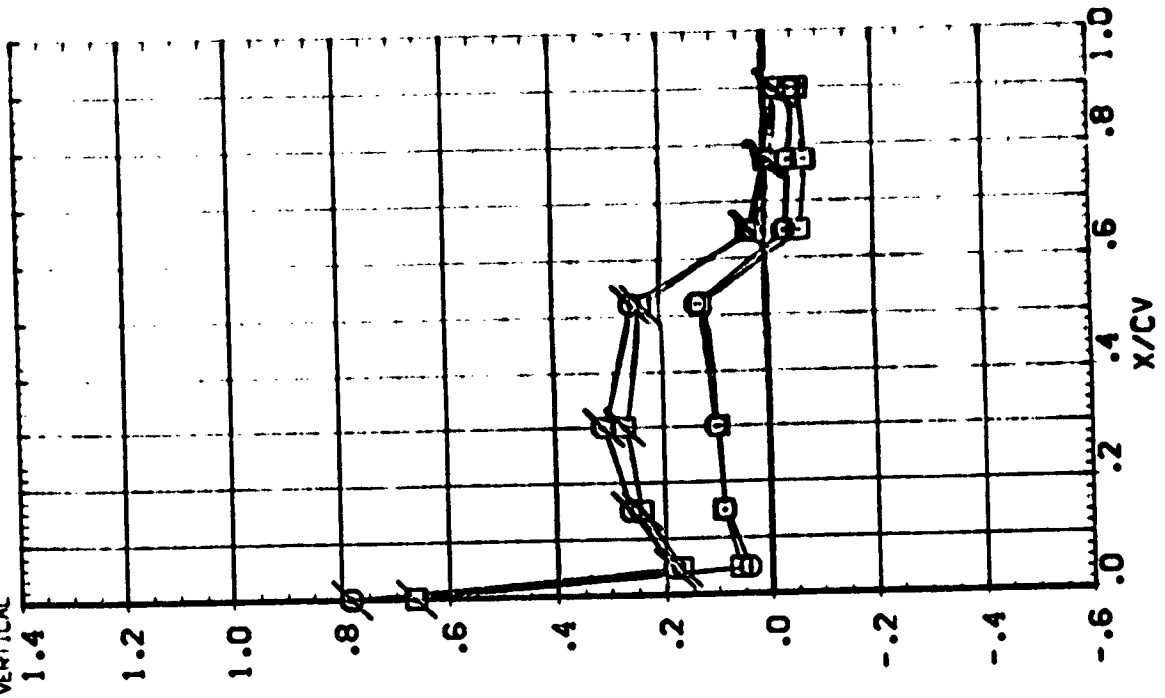
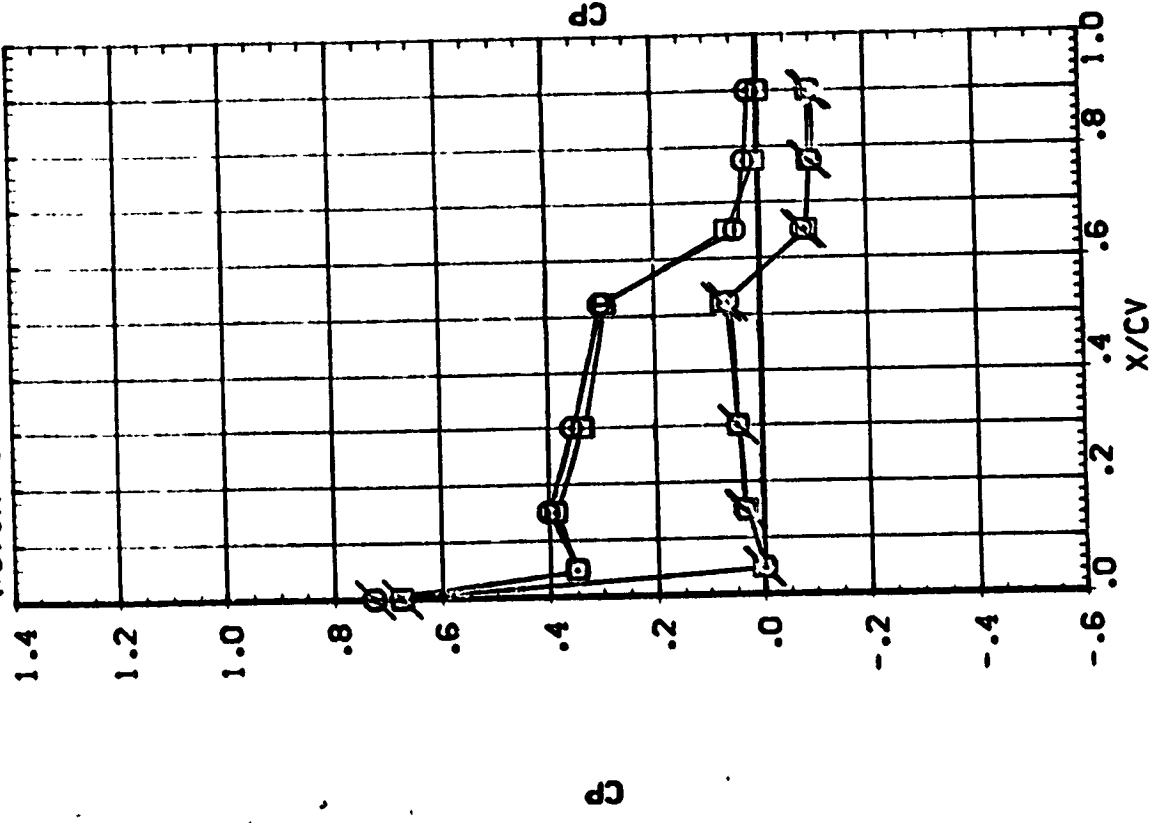


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYNCH 1/3: .84C 2.180
 .975 2.180
 2.498

PARAMETRIC VALUES
 ALPHA: .0000
 RUDER .0000
 RUDDER .0000

DATA SET SYMBOL DESCRIPTION
 (REMARKS) OPEN AYES 87-737 : A9 C2A : S3 : 19 LEFT VERTICAL
 (REMARKS) FLAGGED AYES 87-737 : A9 C2A : S3 : 19 RIGHT VERTICAL



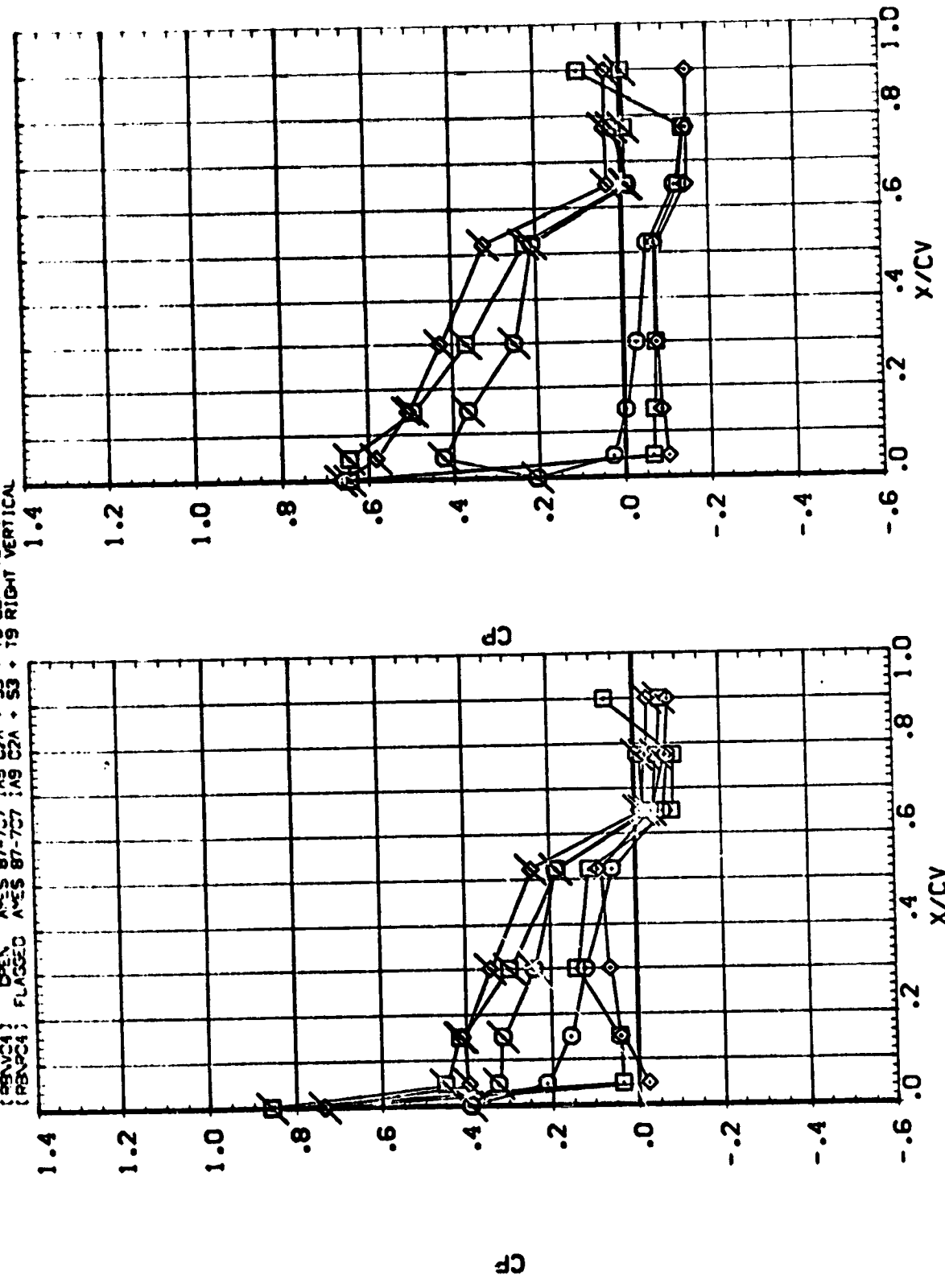
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

==

SYMBOL Z/BV BETAT MACH
 O 1.58 4.300 2.498
 O 3.16 8.550
 O .600

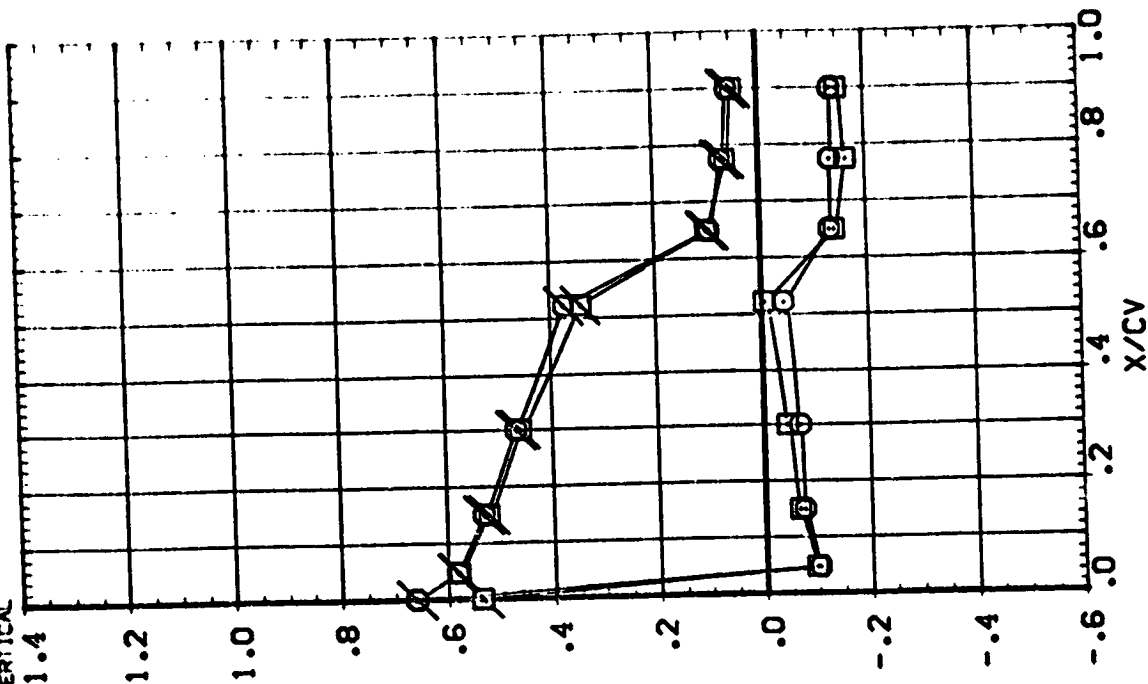
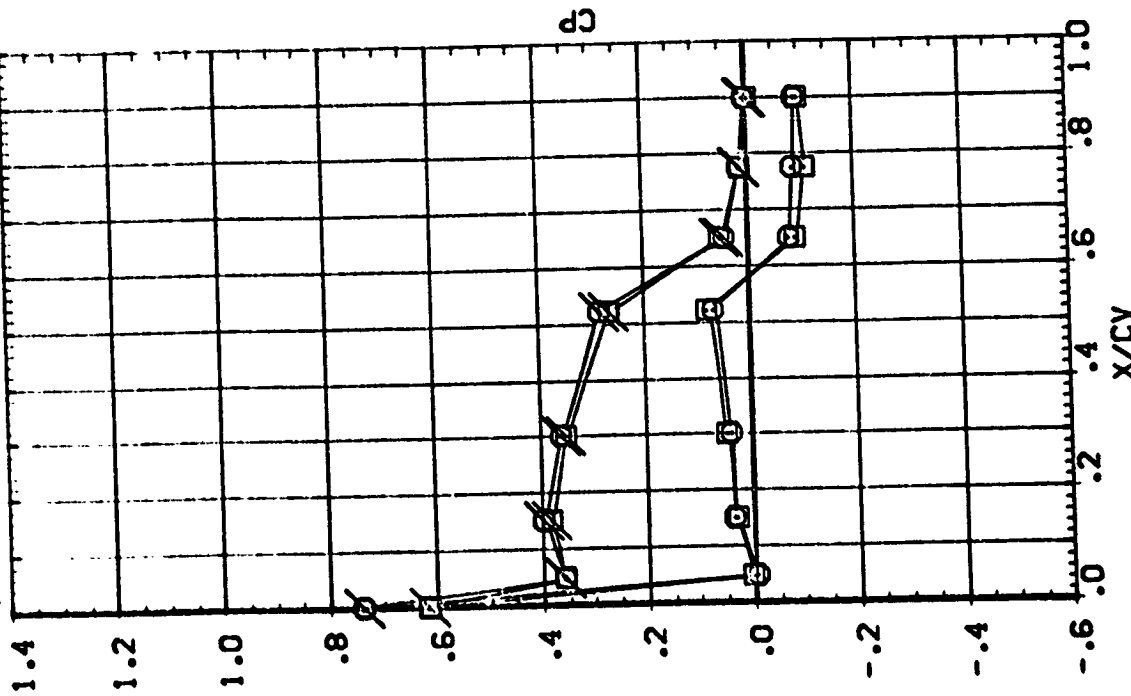
PARAMETRIC VALUES
 ALPHAAT -4.000 0.991 NC
 RUDDER .000 ELEVON
 RUDDER .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBNVC4) OPEN ARES 87-707 (A9 C2A + S3 + T9 LEFT VERTICAL
 (RBNVC4) FLASSED ARES 87-707 (A9 C2A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 : BSAV04 : OPEN : AMES 87-707 : A9 C2A : S3 : 79 LEFT VERTICAL
 : BSAV04 : FLAGGED : AMES 87-707 : A9 C2A : S3 : 79 RIGHT VERTICAL

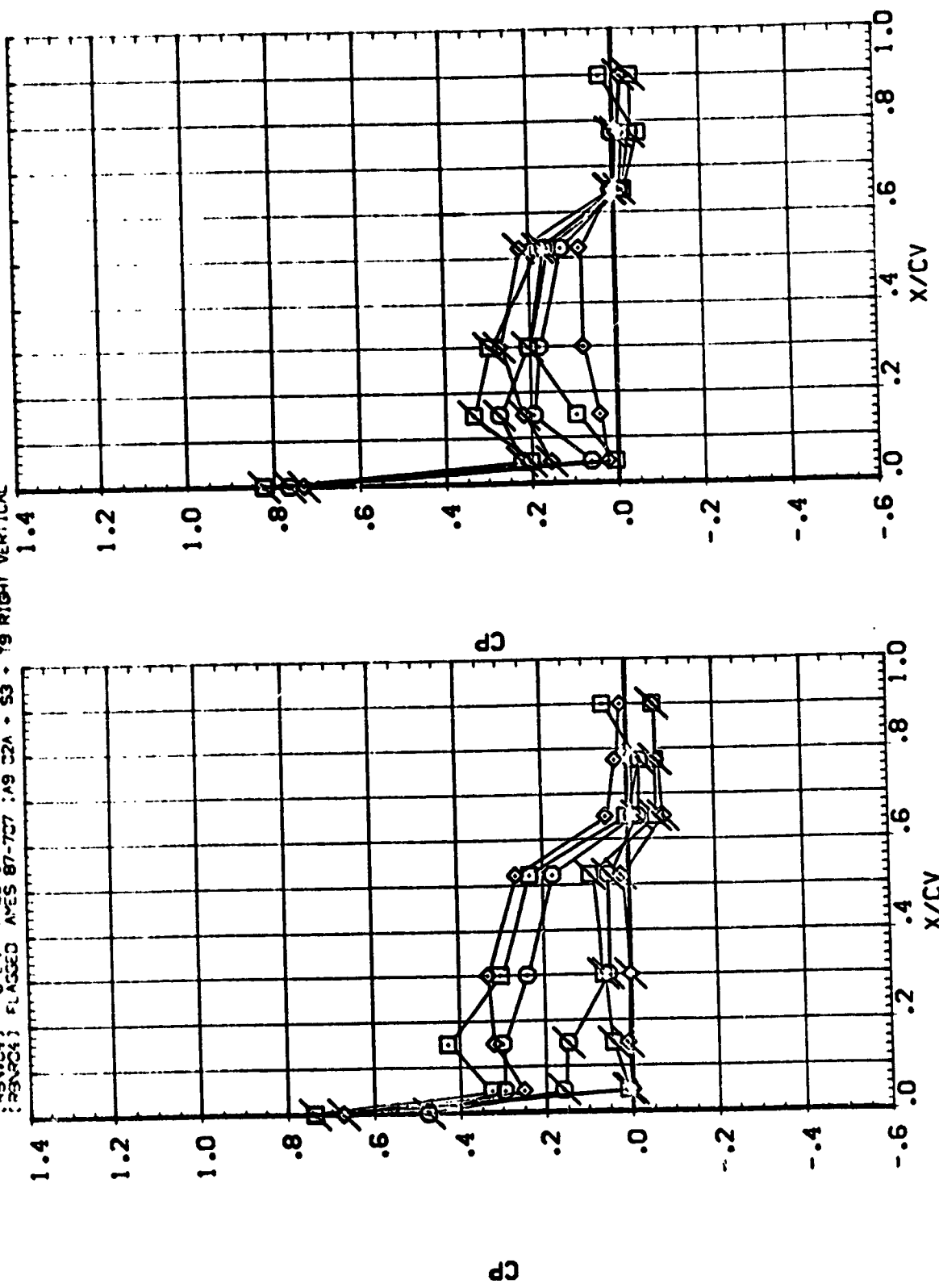


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES
 AREA: 4.000
 RADIUS: 0.000
 ELEVATION: 0.000
 500
 1000

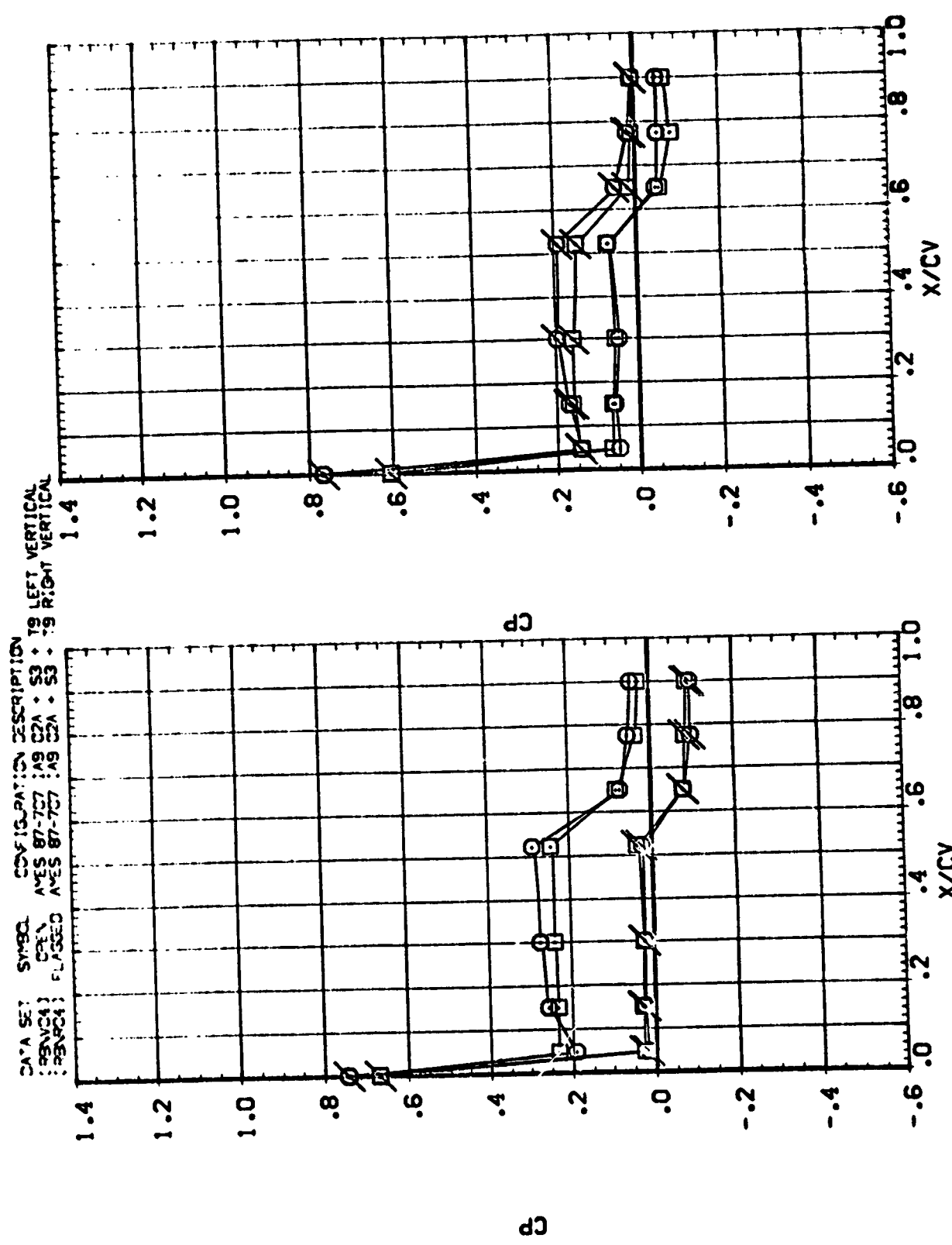
SYMBOL: Z/B: 0.10
 0.158
 0.316
 0.600
 BETAT: 4.760
 2.210
 MACH: 2.999

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (REMOVED) AYES 87-757 :A9 C2A : S3 : T9 LEFT VERTICAL
 (REMOVED) FLAGGED AYES 87-757 :A9 C2A : S3 : T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SV30C Z/B: .84C .925
 BETA: -4.76C 2.21C
 MACH 2.999
 ALPHAT -1.00C .50C
 RUDDER .00C .00C
 RUDDER .00C .00C



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

ALPHA 799.1°C

RUDER .000

RUDER .000

RUDER .000

RUDER .000

SYMBOL Z/B₀ BETA₀ MACH

0.158 4.380 2.999

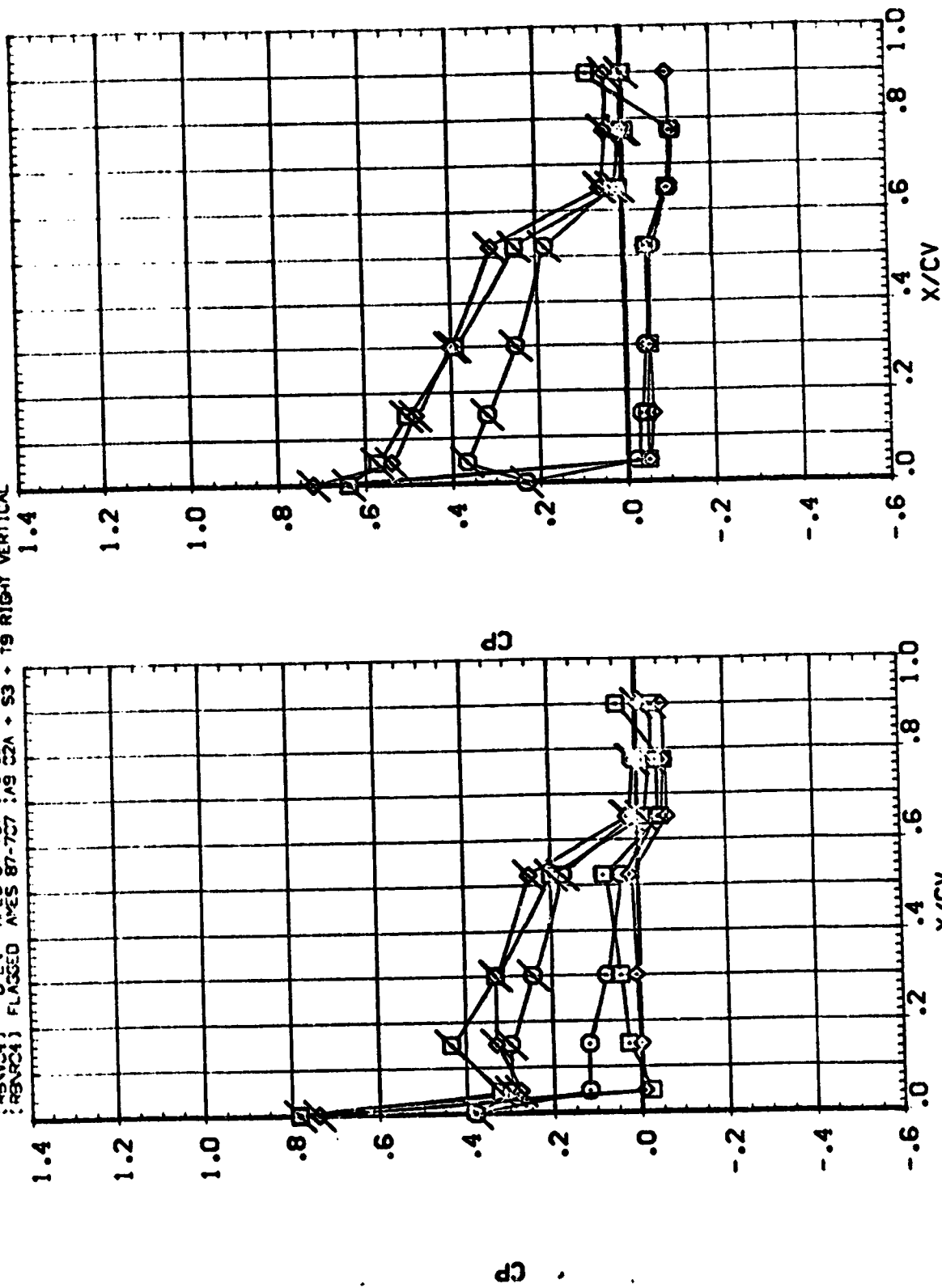
0.316 8.710

0.600

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RBNVCH) OPEN AXES 87-707 : A9 C2A + S3 + T9 LEFT VERTICAL

(RBNVCH) FLANGED AXES 87-707 : A9 C2A + S3 + T9 RIGHT VERTICAL

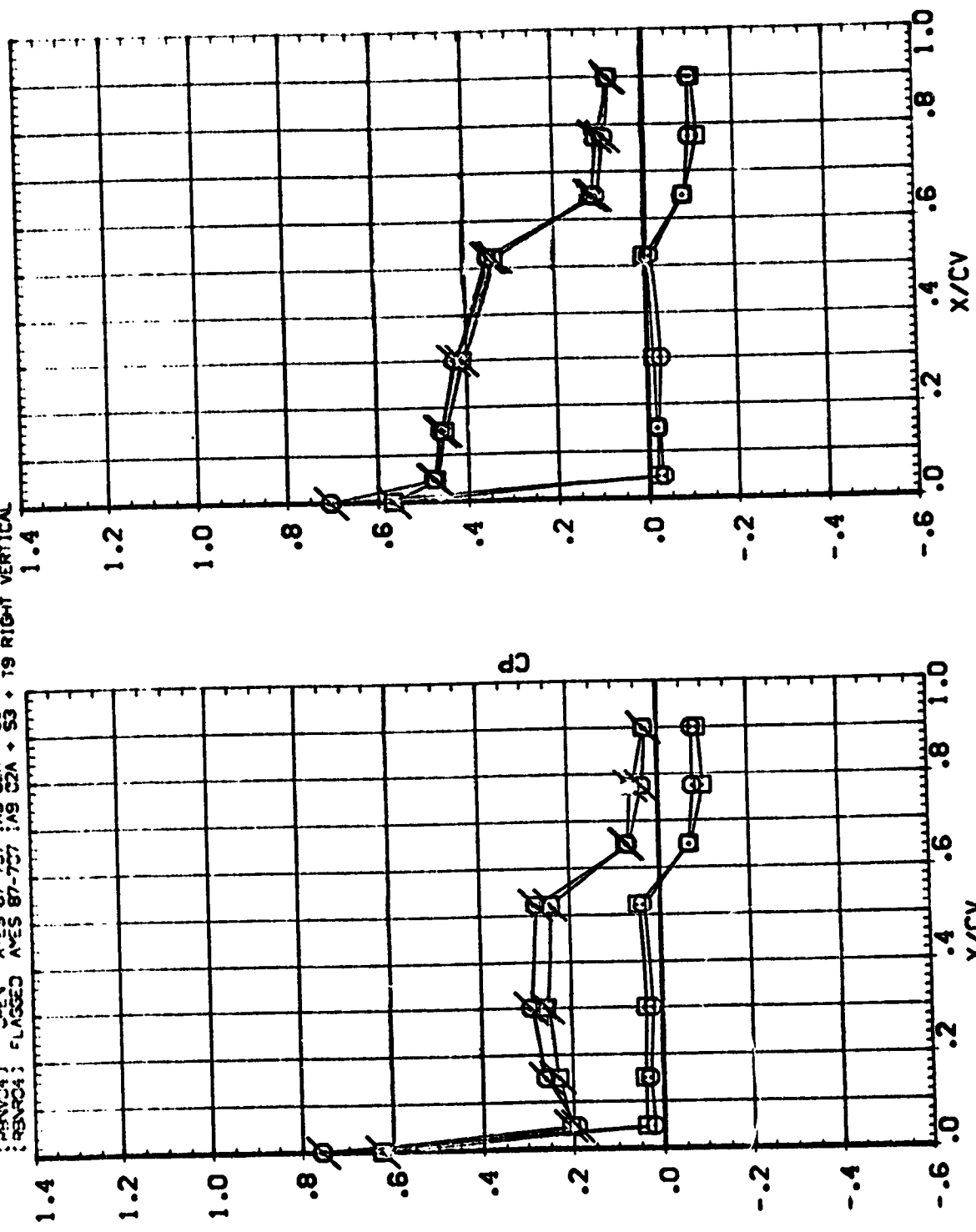


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

A. 2.41
 R. 0.00
 R. 0.00
 E. 0.00
 E. 0.00
 E. 0.00

1.00
 0.843
 0.975
 4.380
 8.710
 2.999

DATA SET SYMBC CONFIGURATION DESCRIPTION
 (RPMV04) OPEN AVES 87-707 (A9 C2A + S3 + 19 LEFT VERTICAL
 (RPMV04) FLASSED AVES 87-707 (A9 C2A + S3 + 19 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL
○ □ ◇

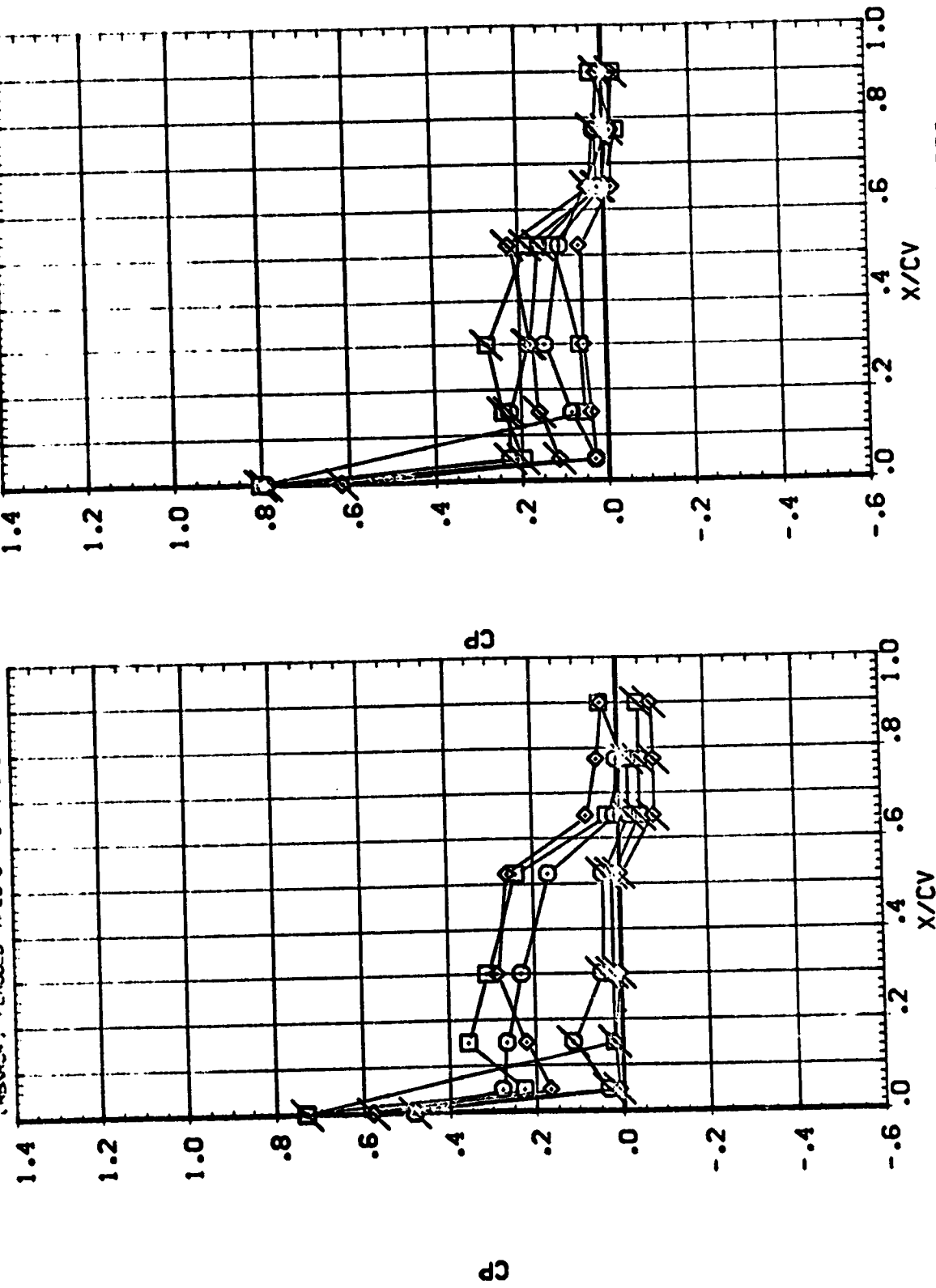
Z/BV
0.158
0.316
0.633

BETAT
-4.340
2.760

WACH
3.502

PARAMETRIC VALUES
ALPHA
-4.000
0.000
0.000
0.000
0.000
0.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
:RBV04: OPEN AVES 87-707 :A9 C2A : S3 : 19 LEFT VERTICAL
:RBV04: FLAGGED AVES 87-707 :A9 C2A : S3 : 19 RIGHT VERTICAL

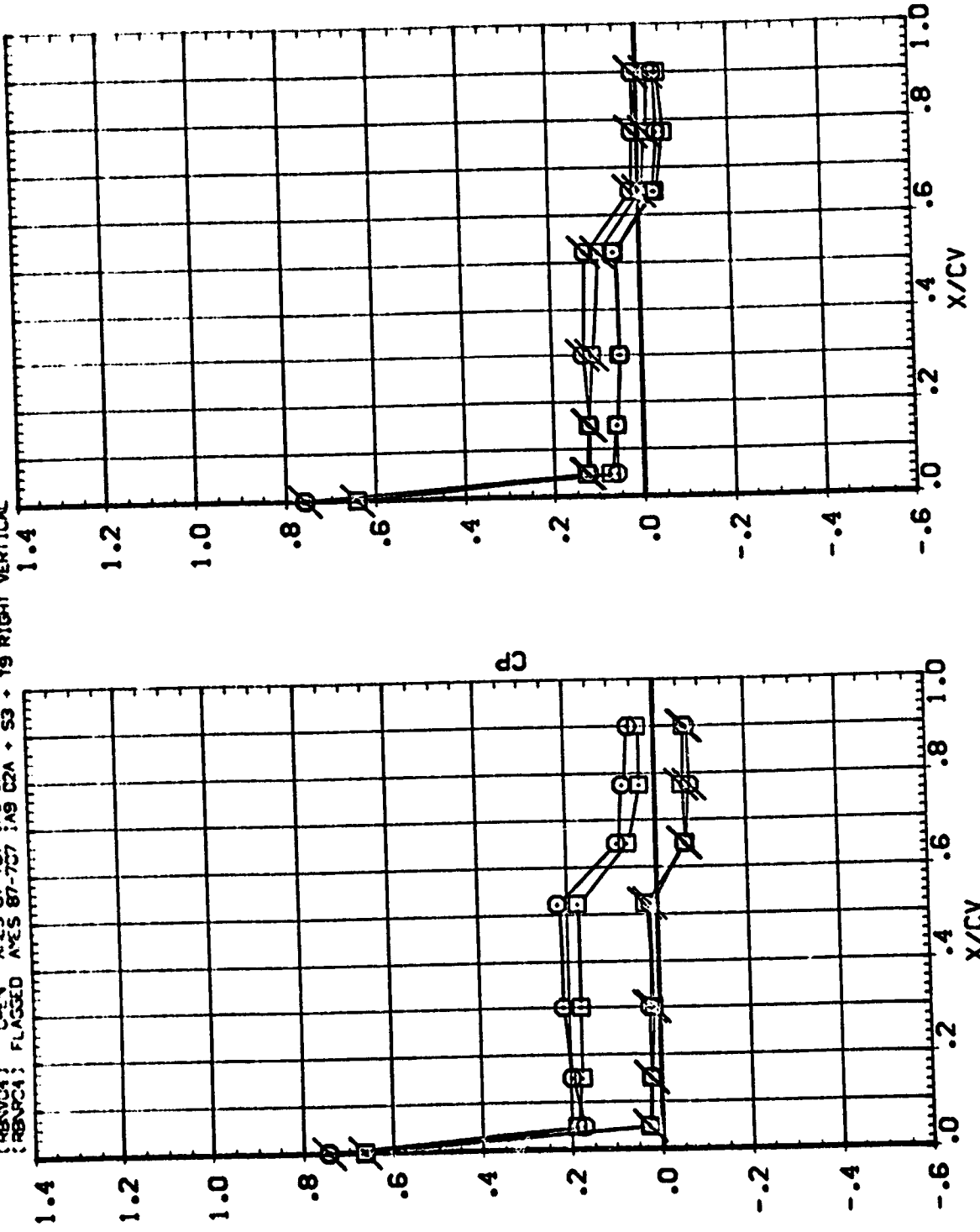


PARAMETRIC VALUES

ALPHAT
RLODER
RLOFLR

SYMBOL Z/BV BE 'A' WACH
01 .840 4.340 3.507
02 .925 2.750

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(RBNV04) OPEN AVES 87-707 IAS C2A + S3 + T9 LEFT VERTICAL
(RBNV04) FLAGGED AVES 87-707 IAS C2A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

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SYMBOL Z/BV
 O .158
 □ .316
 ◇ .600

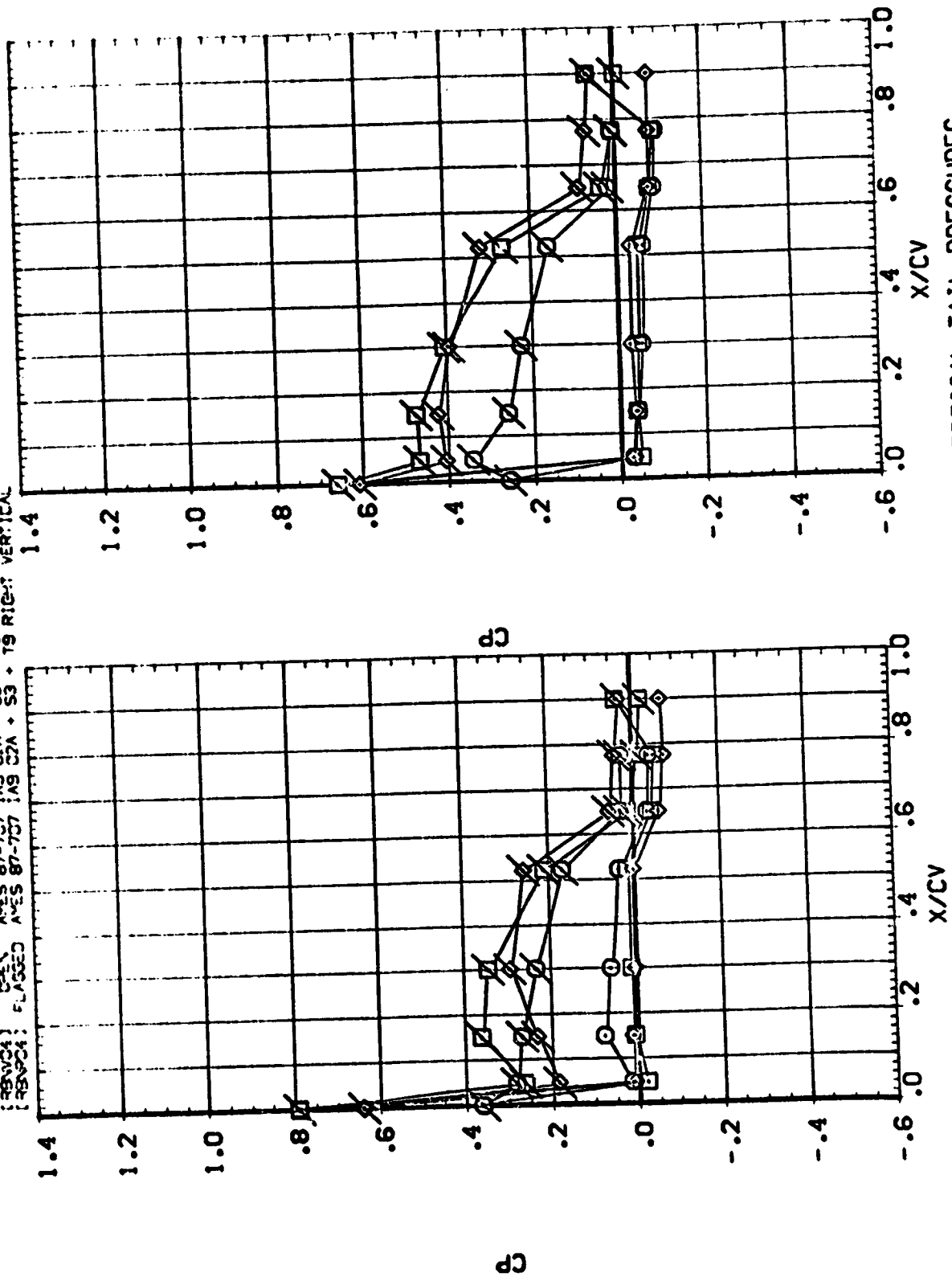
BETAT 4.46C
 8.87C

W/C 3.502

PARAMETRIC VALUES
 ALPHAT -4.000
 RUDDER .000
 RUJFLR .000

.500
 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (REMOVED) OPEN ASES 87-707 IAS C2A + S3 + T9 LEFT VERTICAL
 (REMOVED) FLAPPED ASES 87-707 IAS C2A + S3 + T9 RIGHT VERTICAL



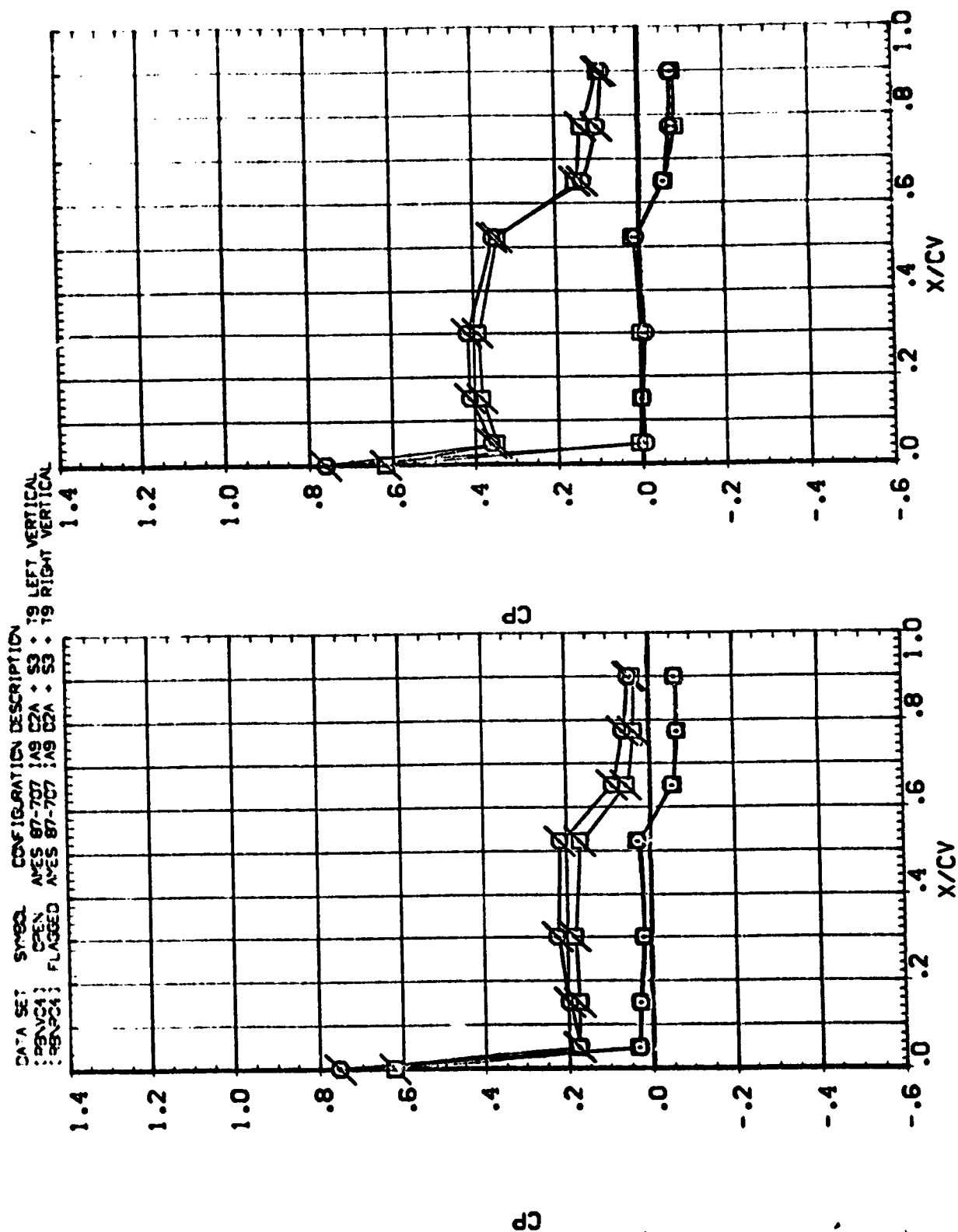
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

526.
348.
E/2

BE-A	WACH
4.460	3.502
0.870	

WACH 3.502

ALPHAT	PARAM:2:2:1:1:5
RJDER	-4.000
RJFLR	.000
	.000
	99:12
	LEVEL

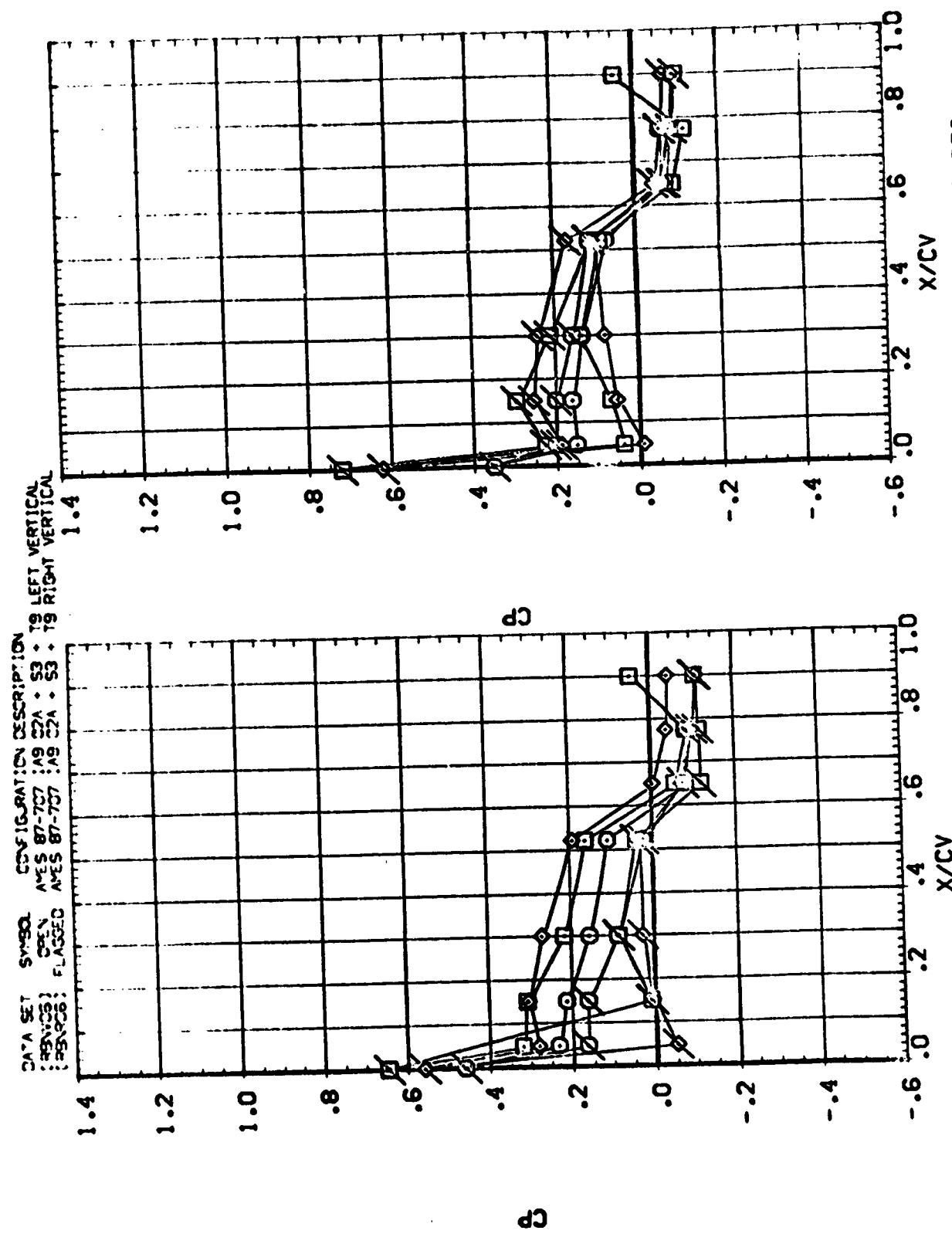


PARAMETER VALUES

ALPHA	.000	59.12	.000
RUDDER	.000	ELEV	.000
RUDDLR	.000		

SYMBOL I/B: BETA: MACH

.158	-4.190	2.498
.316	2.170	
.600		



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

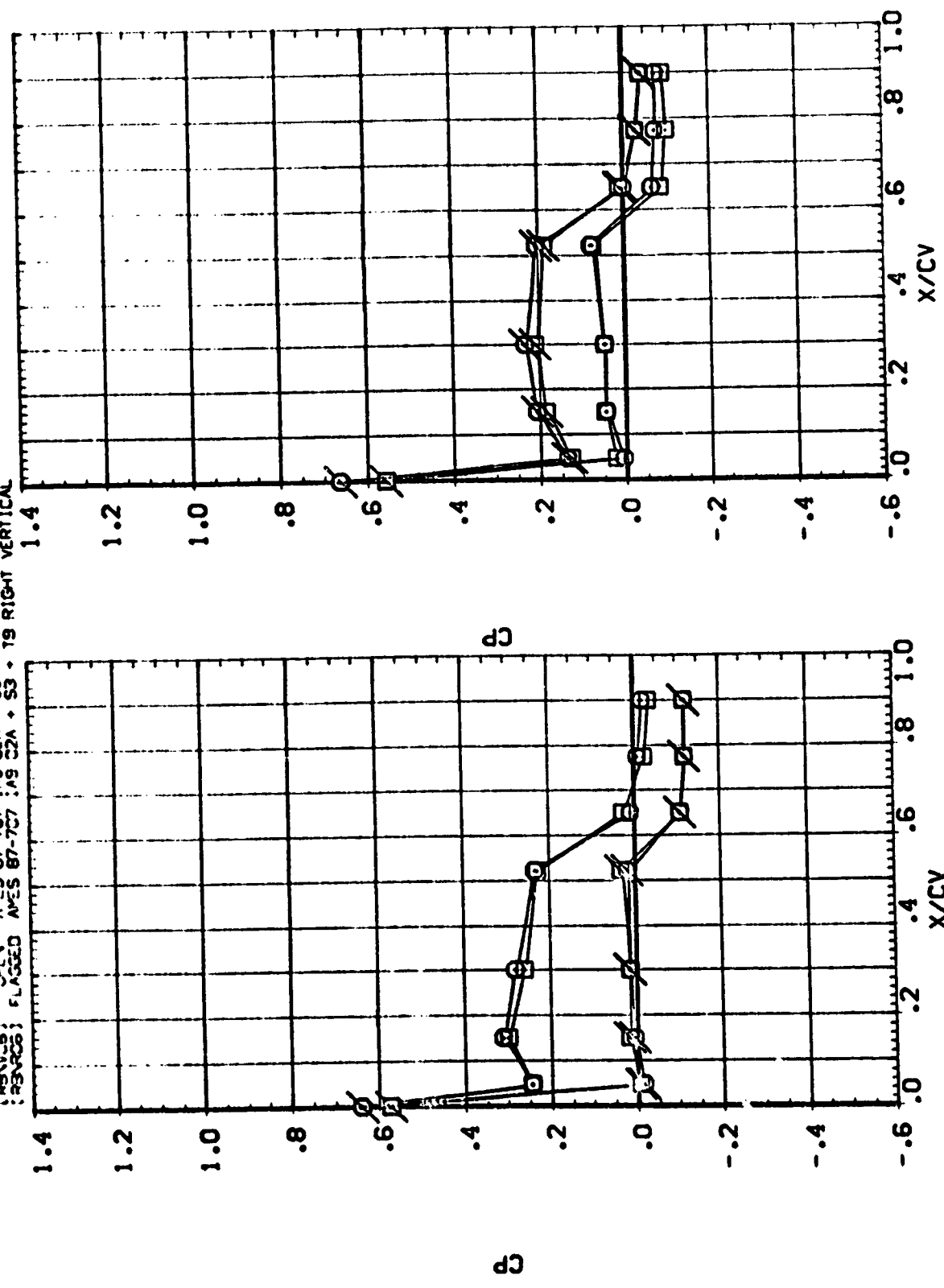
PARAMETRIC VALUES

ALPHA	0.000	0.000	0.000
RUDDER	0.000	0.000	0.000
RJFLR	0.000	0.000	0.000

SYMBOL Z/B

0.84C	0.975
0.10C	2.170
MAC	2.498

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (SERIES) OPEN ASES 87-707 : A9 C2A : S3 : T9 LEFT VERTICAL
 (SERIES) FLAGGED ASES 87-707 : A9 C2A : S3 : T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

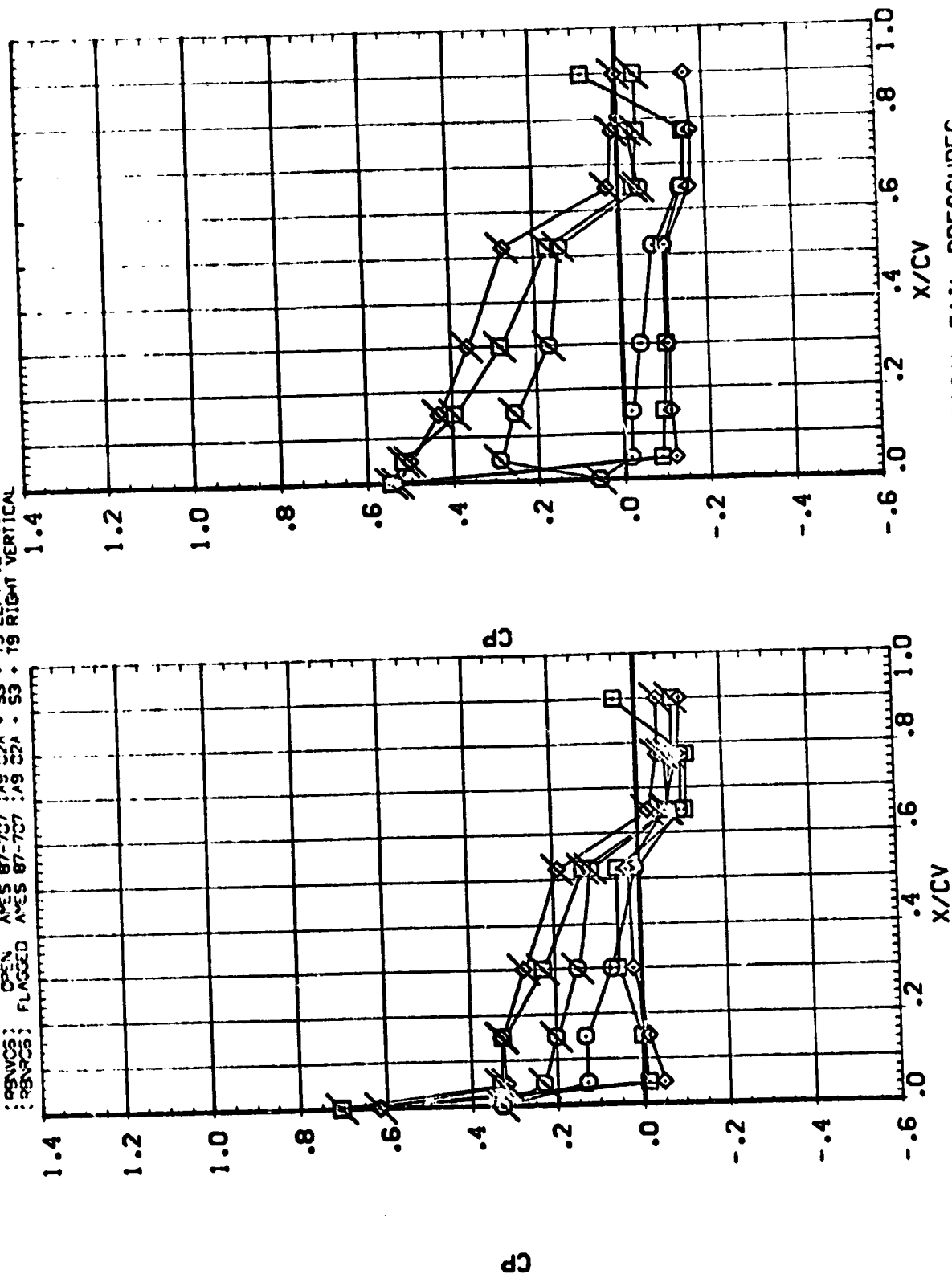
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349

SYNCH 1/31 BETAT 4.290 MACH 2.498
 .158
 .316
 .600

PARAMETRIC VALUES
 ALPHAT .000 298.10
 RUDER .000 ELEVON
 RUJFLR .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 :REVNO: OPEN AMES 87-707 :A9 C2A : S3 : T9 LEFT VERTICAL
 :REVNO: FLAGGED AMES 87-707 :A9 C2A : S3 : T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

ALPHAT
 RUDDER
 RUDDLR

SYSC 7/31
 .84C
 .975

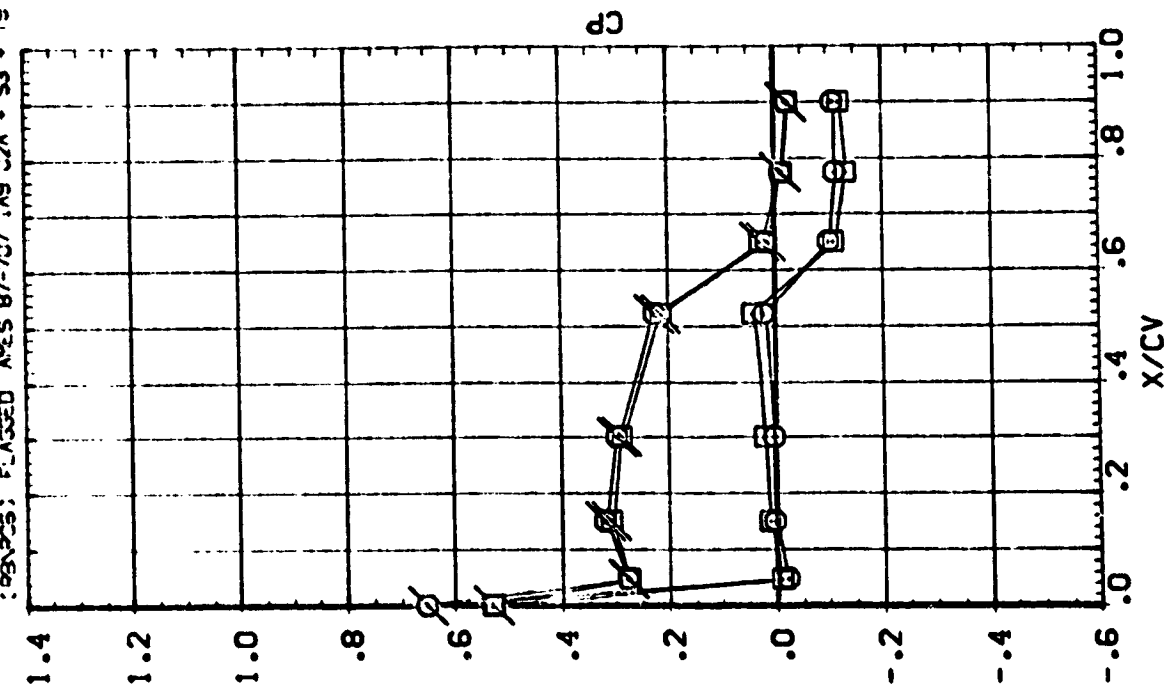
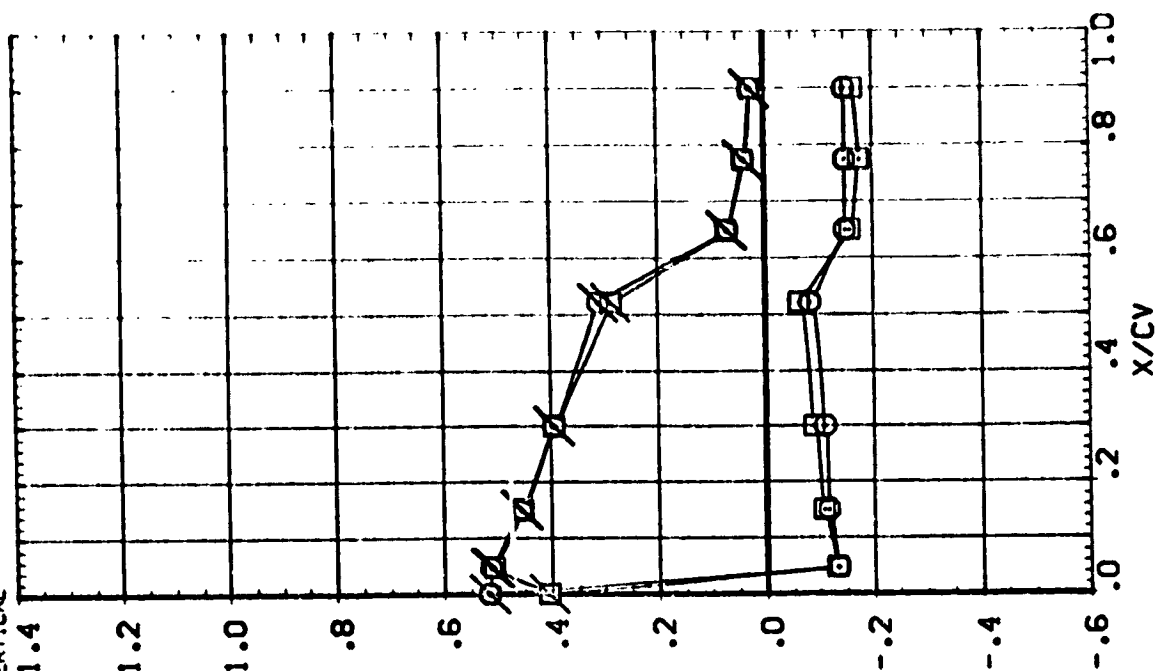
BETA
 4.250
 8.540

MACH
 2.498

PAPER: 215
 .000
 .000
 .000
 .000

DATA SET
 (REVISION)
 (REVISION)
 (REVISION)
 (REVISION)

CONFIGURATION DESCRIPTION
 AMES 87-707 : AG C7A - S3 : 19 LEFT VERTICAL
 AMES 87-707 : AG C7A - S3 : 19 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

ALPHA: .000
 BETA: .000
 GAMMA: .000
 DELTA: .000
 ELEV: .000

SYMBOL Z/B: .150
 BETA: -4.270
 WACH: 7.999

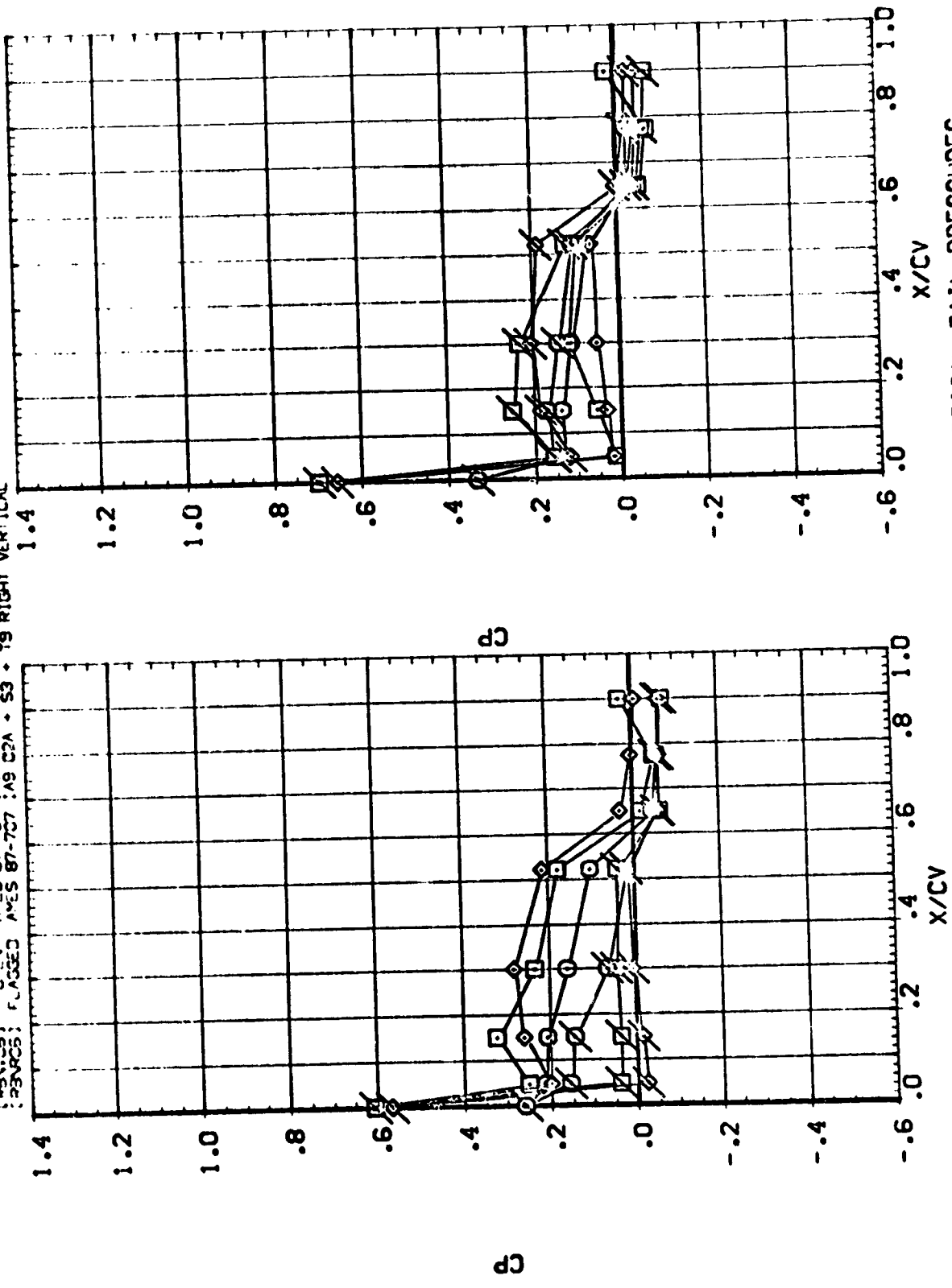
SYMBOL Z/B: .316
 BETA: 7.210

SYMBOL Z/B: .600

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(SERIES) OPEN AVES 87-707 : A9 C2A : S3 : T9 LEFT VERTICAL

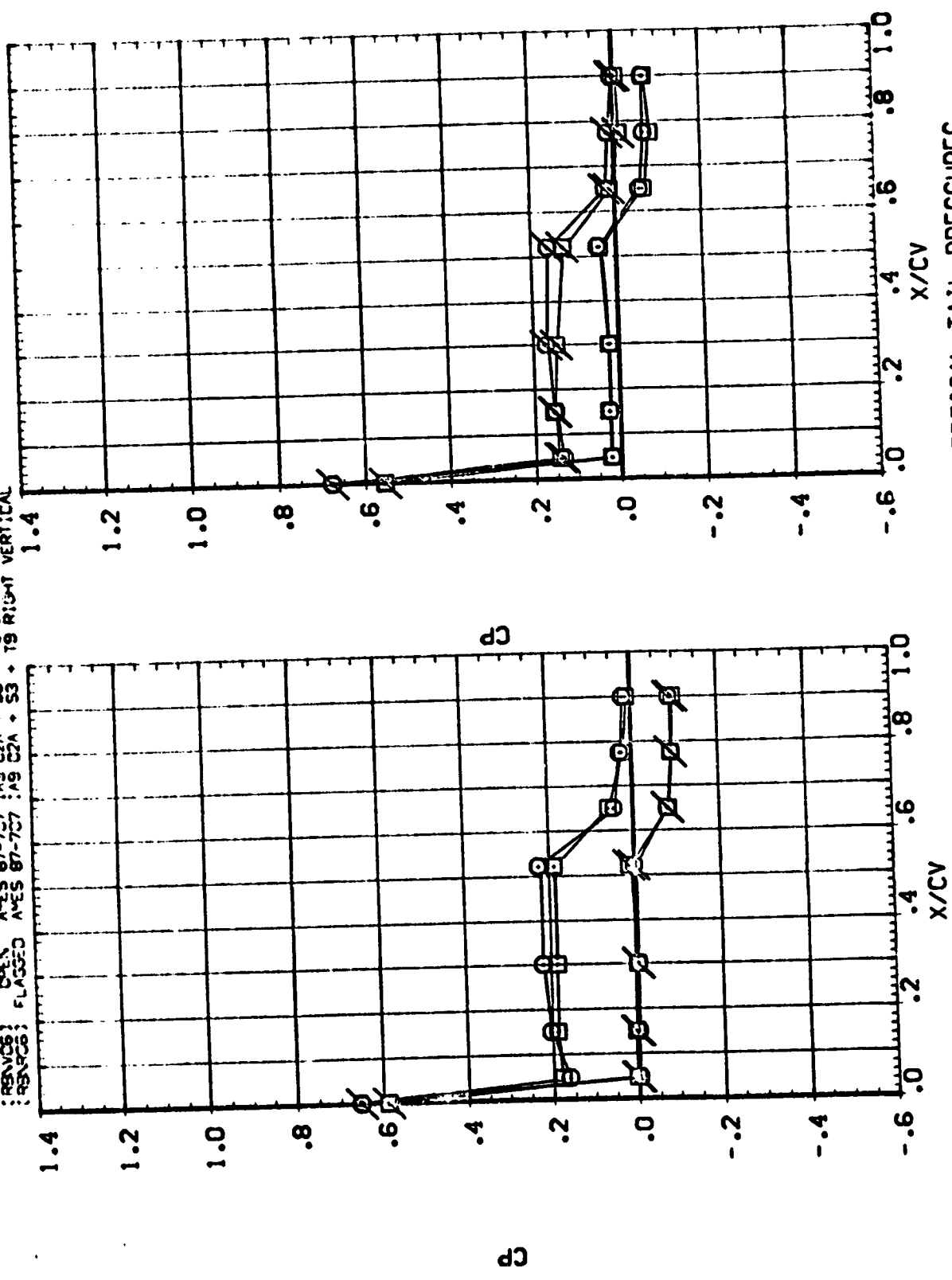
(SERIES) FLAGGED AVES 87-707 : A9 C2A : S3 : T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SWBC: 7/34
 .84C
 .975
 BL "A"
 -4.770
 2.210
 MACH
 2.959
 ALPHAT
 RDOER
 RDOFLR
 ELEVON
 .000
 .000
 .000
 .000

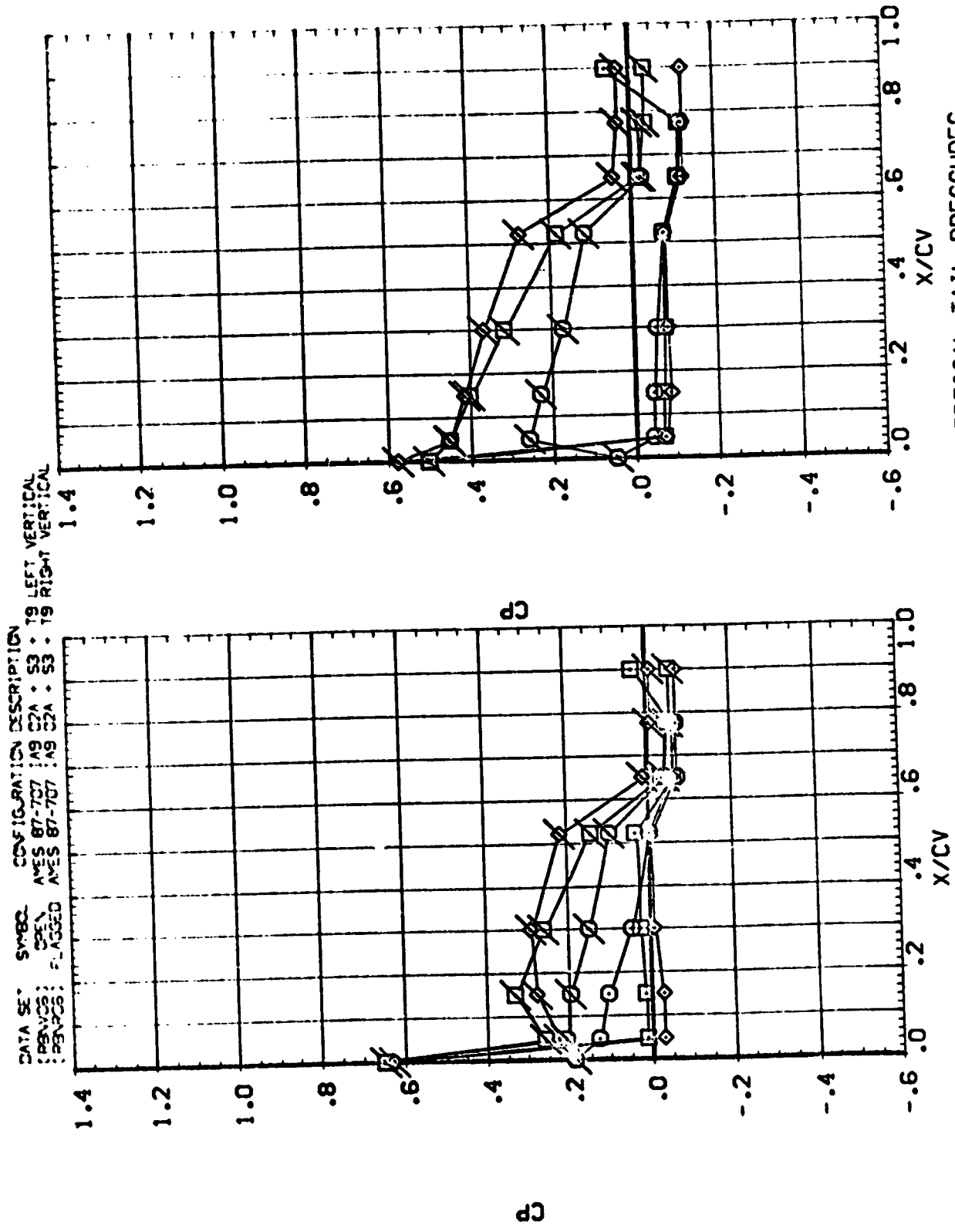
DATA SET: SYMBOL DESCRIPTION
 : RESVOS: OPEN AYES 87-727 : A9 C2A : S3 : T9 LEFT VERTICAL
 : RESVOS: FLAGGED AYES 87-727 : A9 C2A : S3 : T9 RIGHT VERTICAL



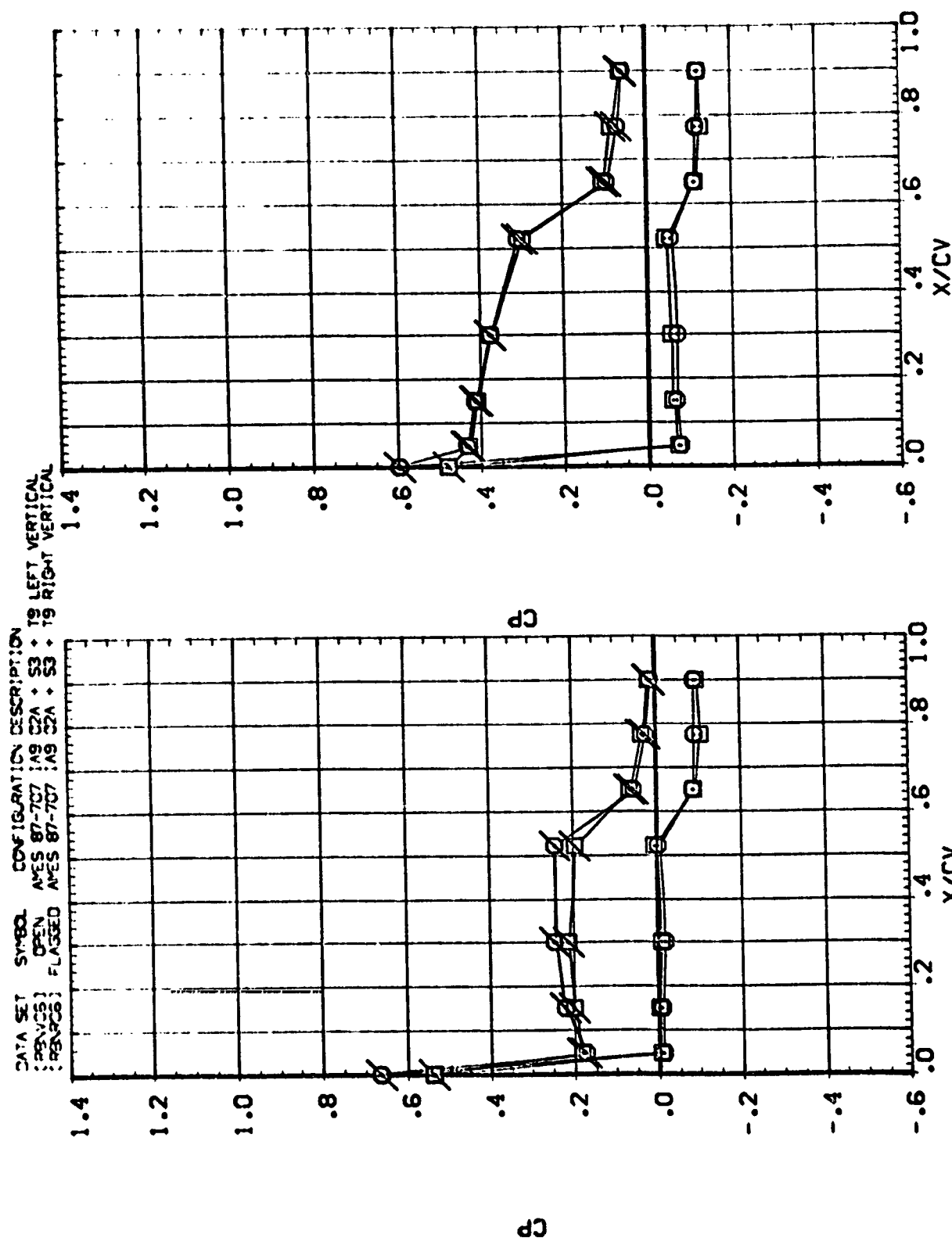
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBO: Z/B: α : MACH
 :58 :1.372 2.999
 :3:6 :8.682
 :600
 () \square \diamond

PARAMETRIC VALUES
 ALPHAT .000 999:1
 RUDDER .000 ELEVON
 RUDDLR .000



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

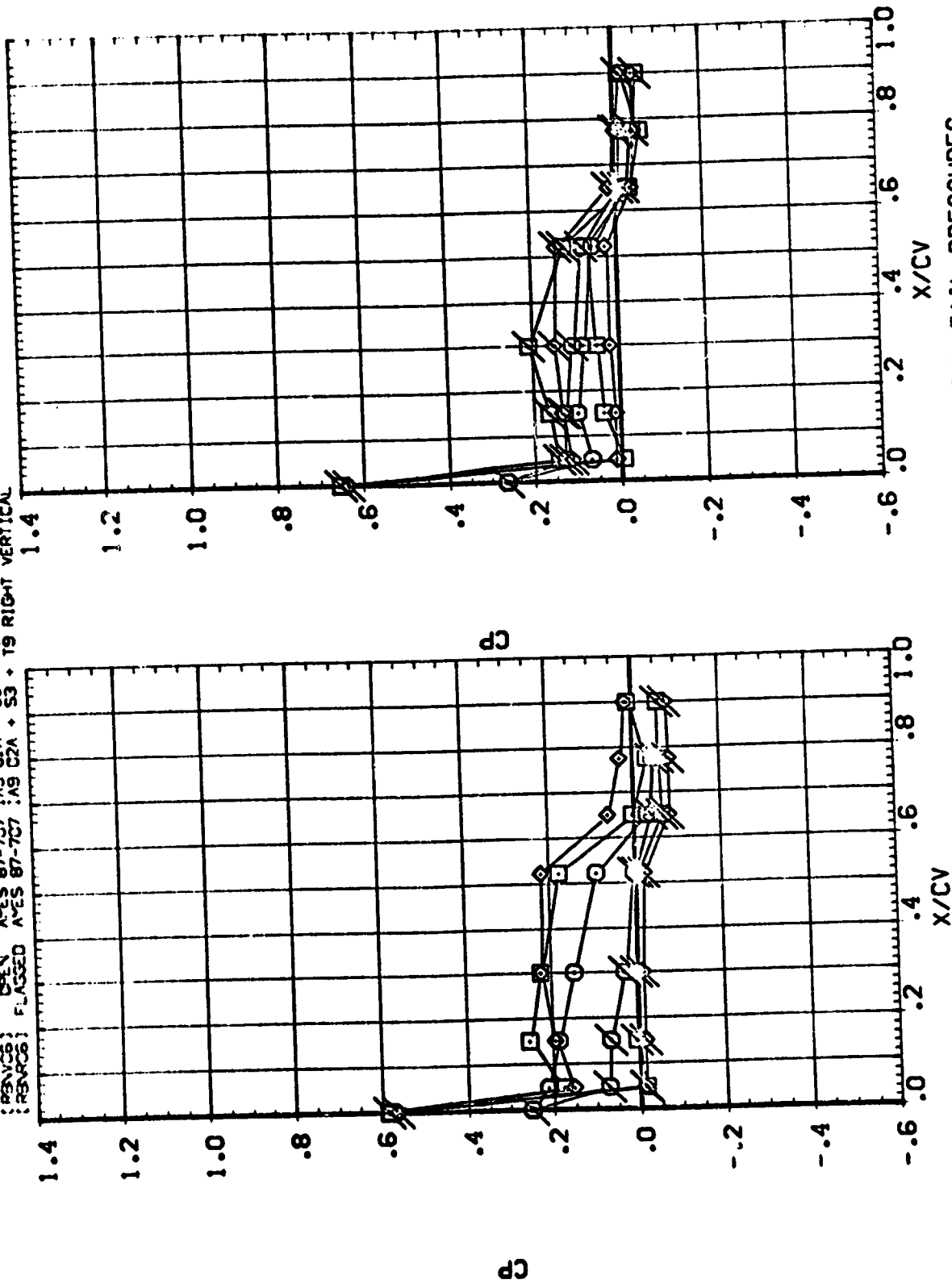
==

SYMBOL Z/BV
○ .158
○ .316
◇ .603

BETAT MACH
-4.340 3.502
2.260

PARAMETRIC VALUES
ALPHAT .000 DRB'NC .500
RUDDER .000 ELEVON .000
RUDFLR .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(RESVCS) OPEN AYES 87-707 :A9 C2A + S3 + T9 LEFT VERTICAL
(RESVCS) FLAGGED AYES 87-707 :A9 C2A + S3 + T9 RIGHT VERTICAL



PARAMETRIC VALUES

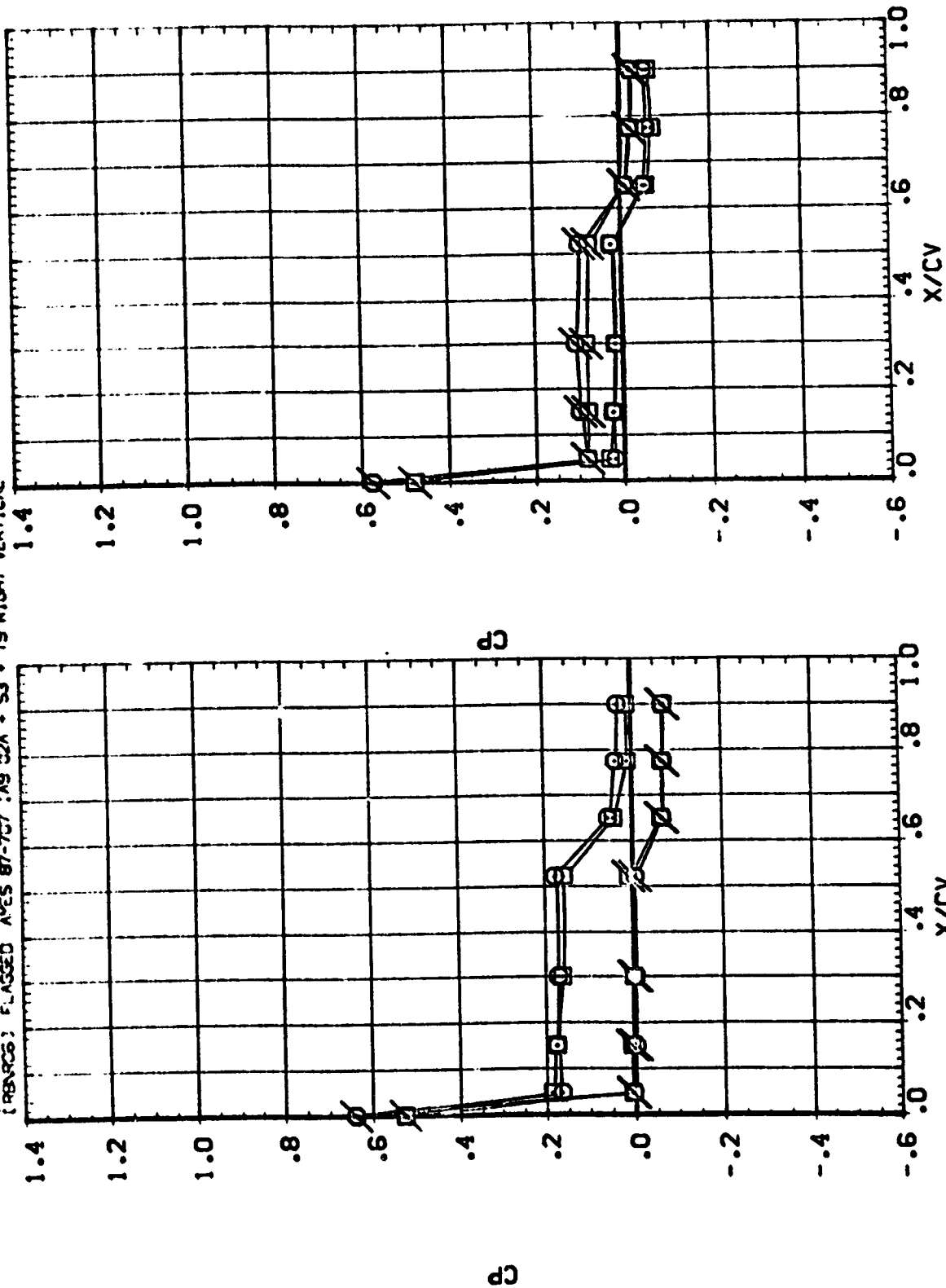
ALPHAT	.000	ORBITAL	.500
RJDR	.000	ELEVON	.000
RJDR	.000		

SYMBOL

Z/BV	.840	BETA	4.340	MACH	3.502
	.975		2.760		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(REVISION)	OPEN	AVES 87-707	AS 02A	S3	TS LEFT VERTICAL
(REVISION)	FLAGGED	AVES 87-707	AS 02A	S3	TS RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

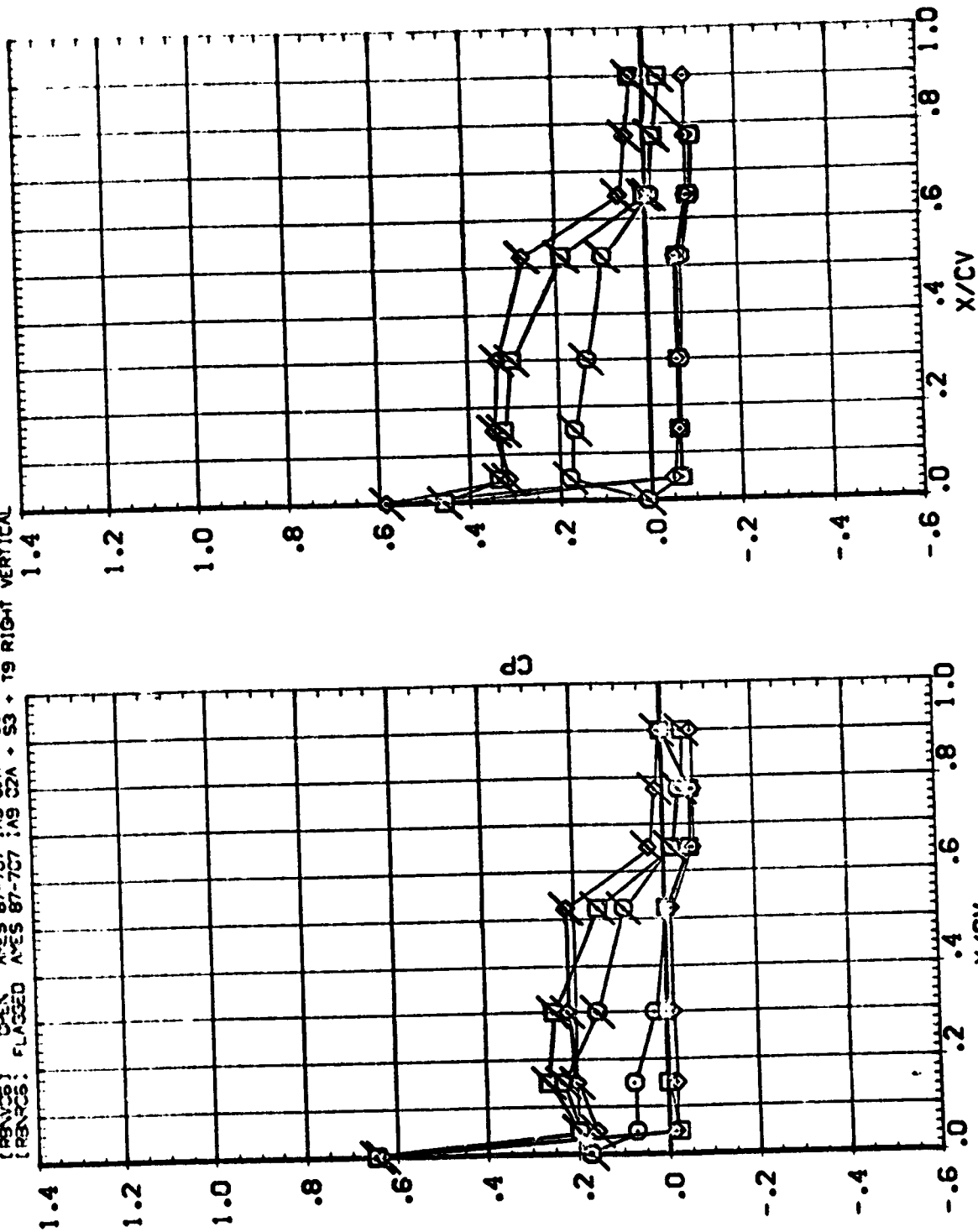
ALPHAT	.000	OSB:NC	.500
RJDER	.000	ELEV	.000
RJFLR	.000		

SYMBOL Z/BV BETAT MAC-

.158	4.450	3.502
.316	8.850	
.600		

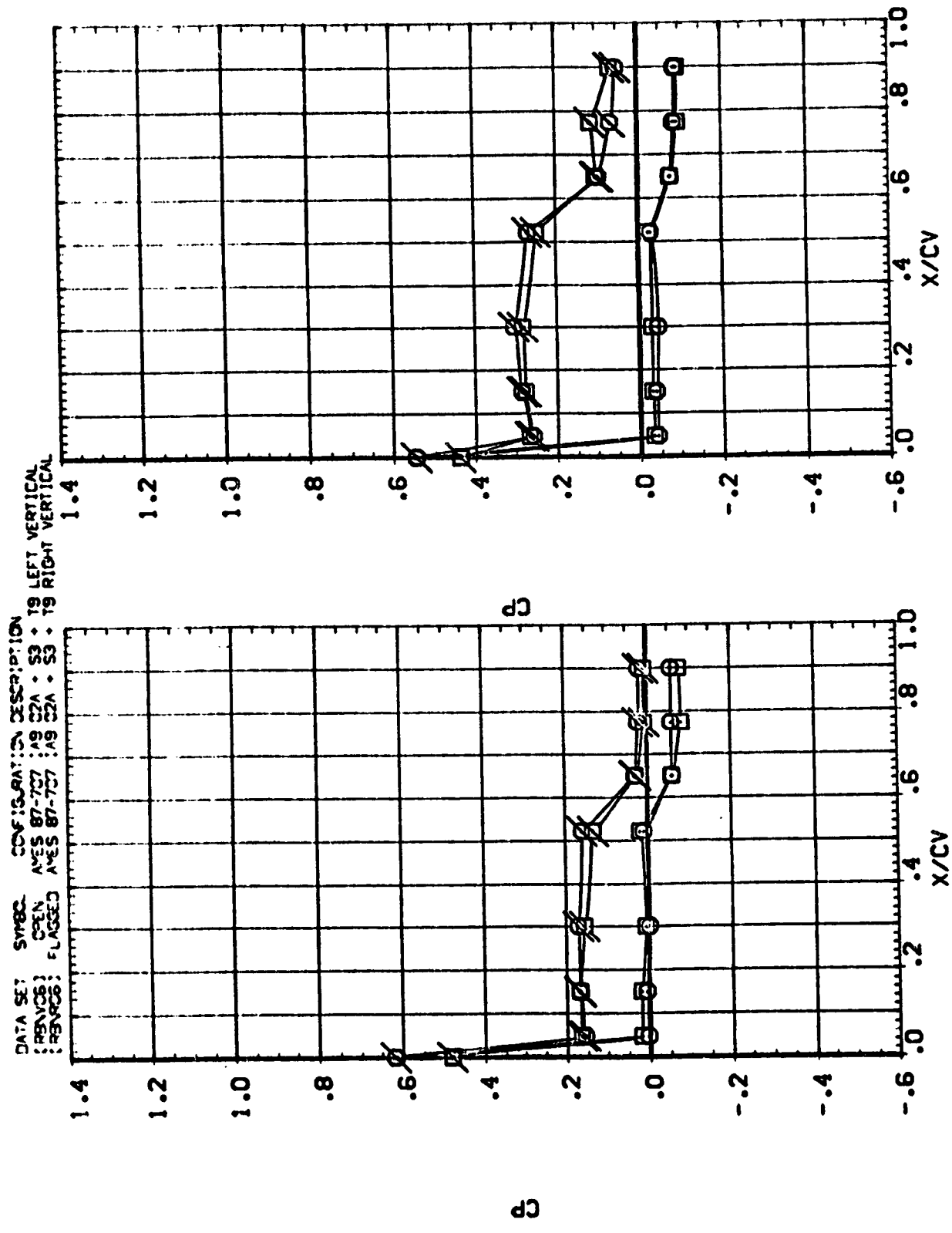
DATA SET SYMBOL CONFIGURATION DESCRIPTION

[RENCB]	OPEN	AVES 87-707	AS C2A + S3 + 19 LEFT VERTICAL
[RENCB]	FLASSED	AVES 87-707	AS C2A + S3 + 19 RIGHT VERTICAL



3E-A'	WAG-4
4.450	3.502
8.050	

ALPHAT	PARME-RIC VALUES	
RDOER	.000	.000
RDOFLR	.000	.000



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

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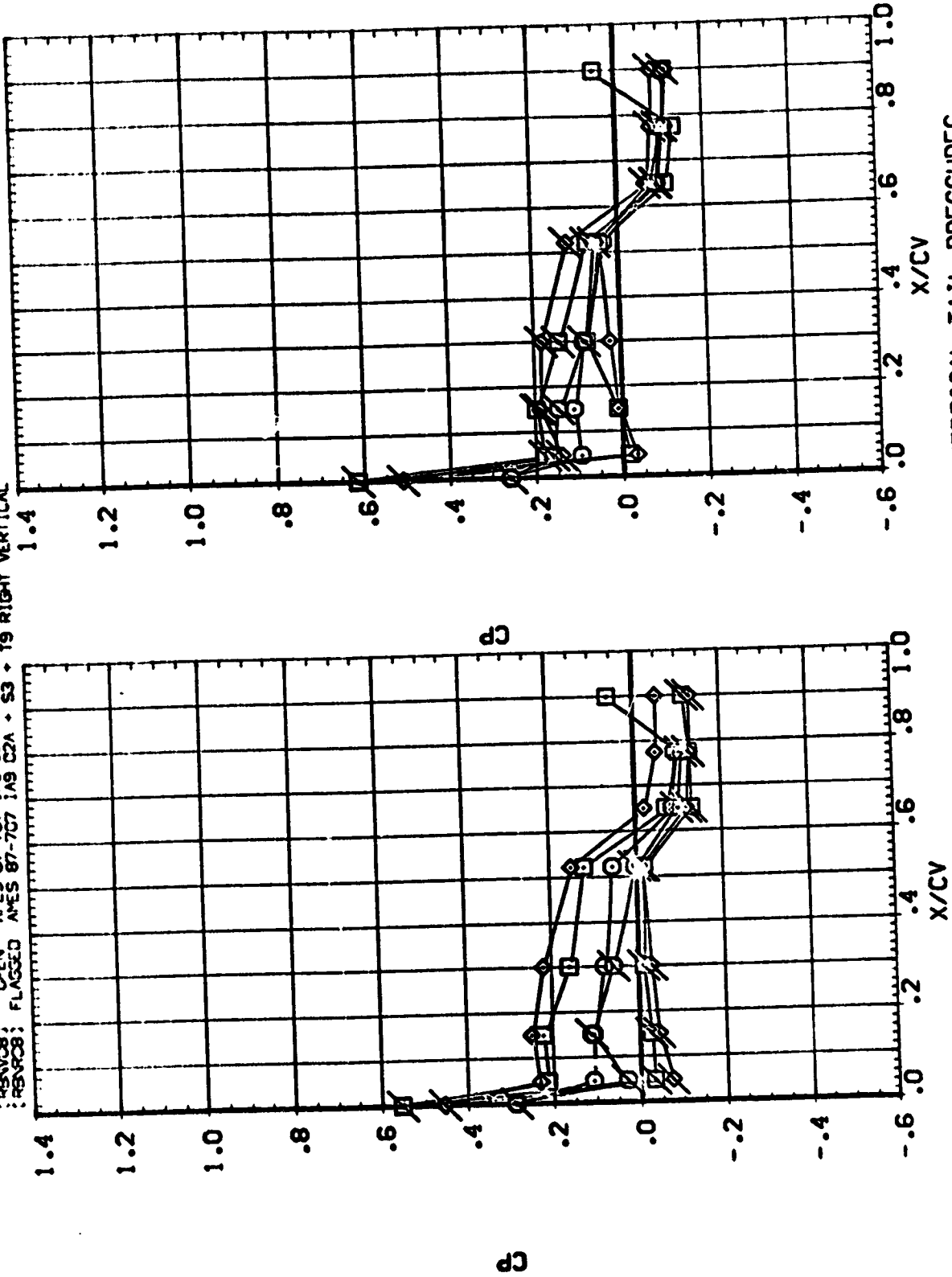
SYMBOL Z/B/ .058
□ 3.5
◇ .500

BETAT -4.190
2.170

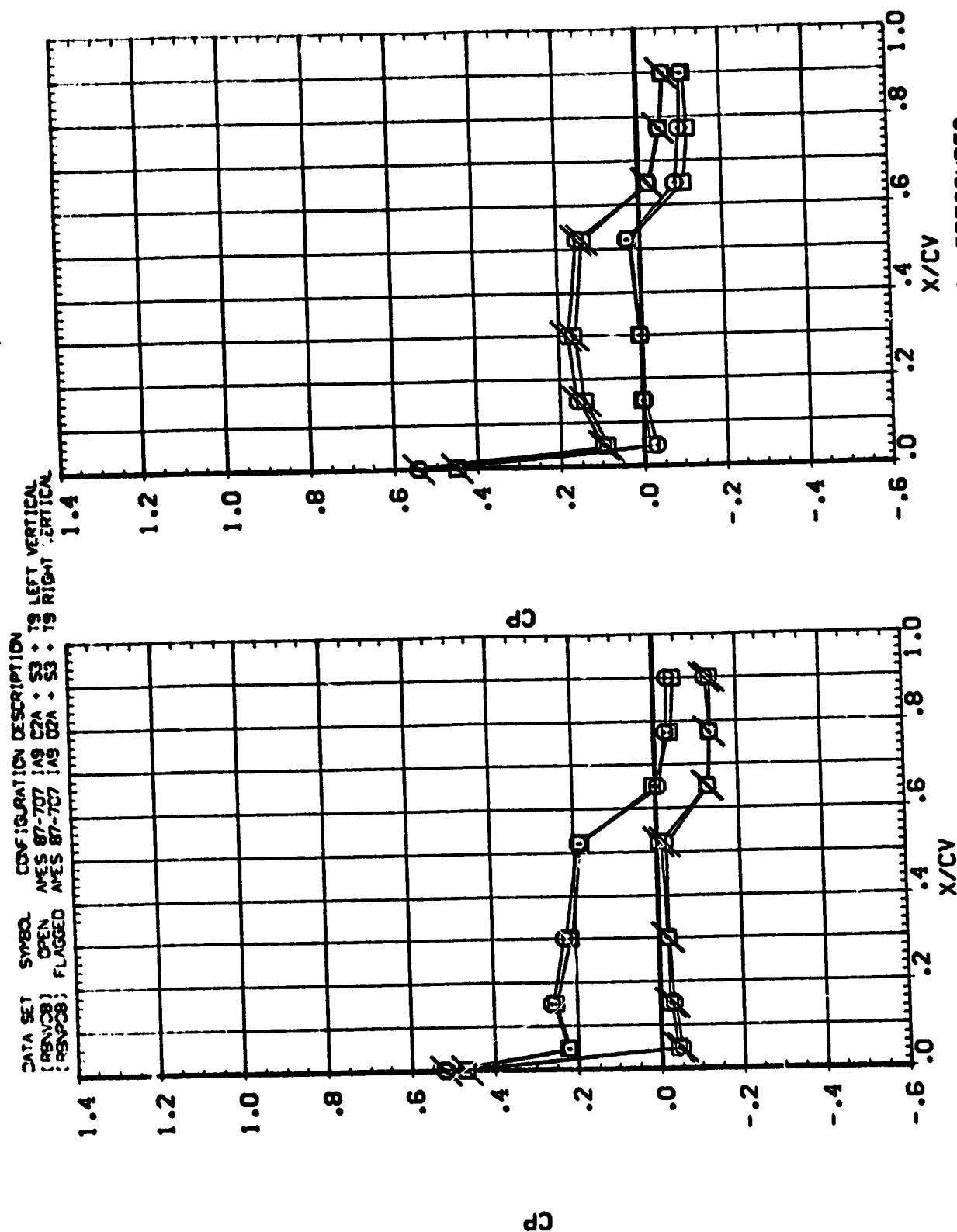
MACH 2.498

PARAMETRIC VALUES
ALPHAT 4.000
RUDDER .000
RUDFLR .300
SPSINC .500
ELEVON .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
:R8V08: OPEN AYES 87-707 IAS C2A * S3 * TS LEFT VERTICAL
:R8V08: FLAGGED AYES 87-707 IAS C2A * S3 * TS RIGHT VERTICAL



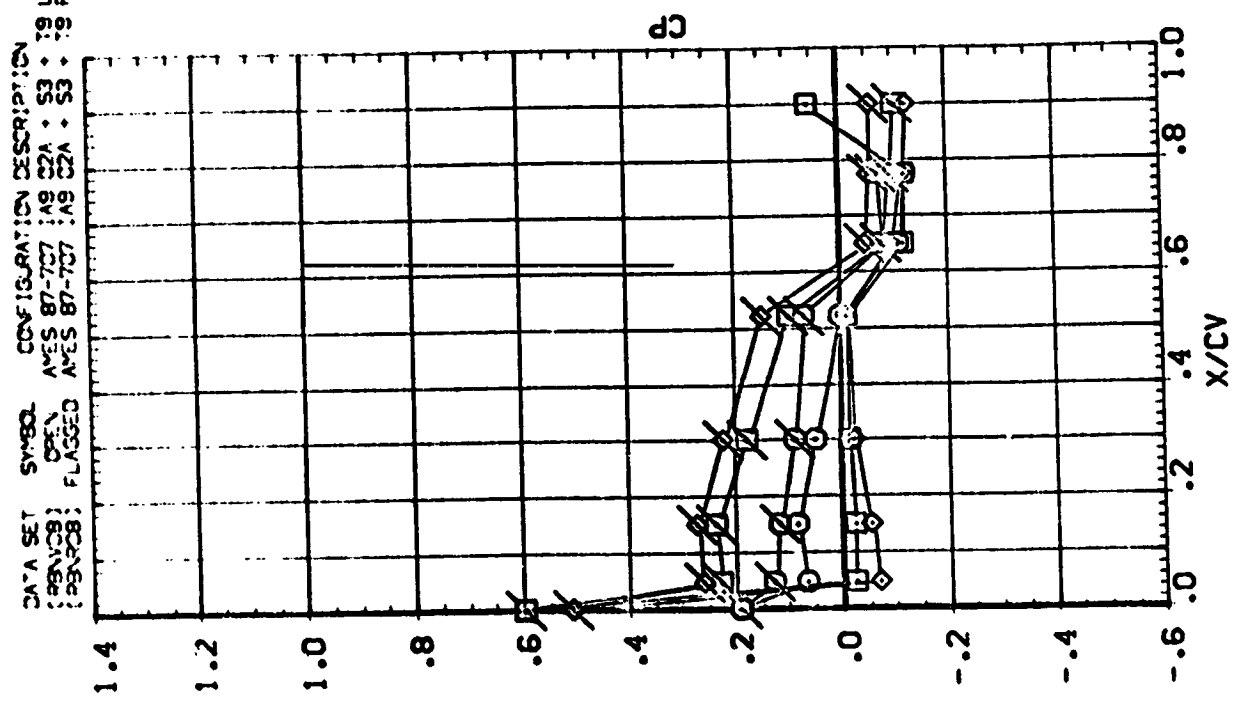
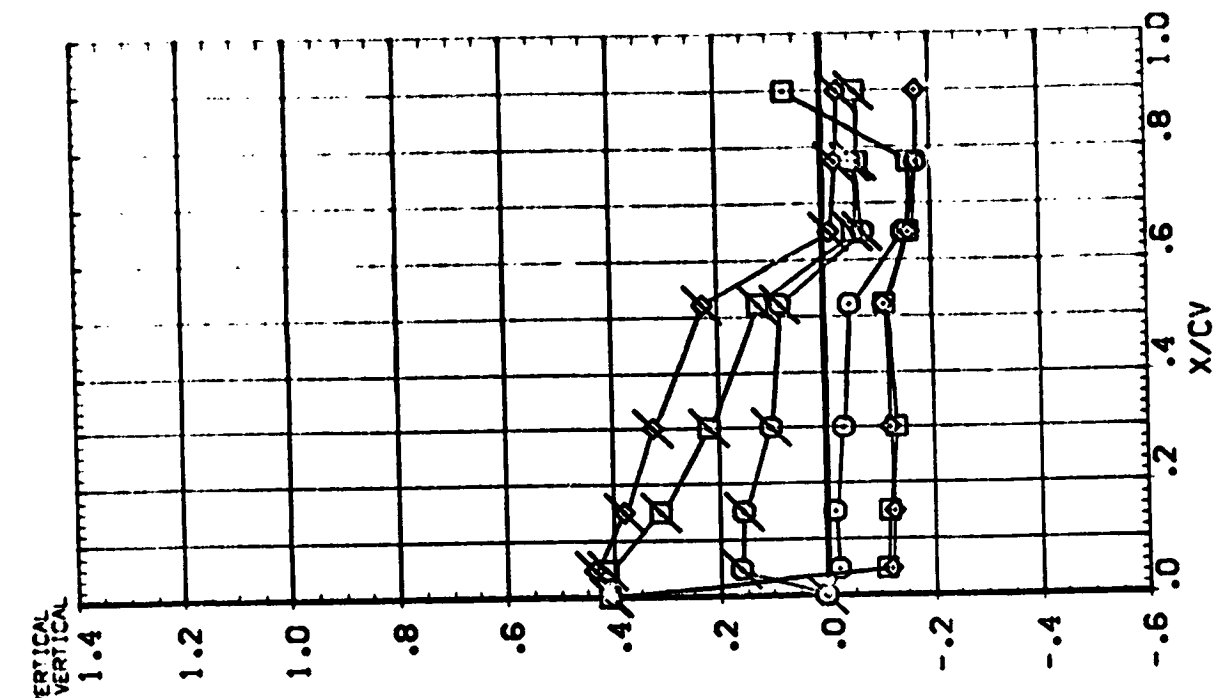
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



X/CV		CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES		PAGE

PARAMETRIC VALUES

ALPHA	4.000	99.1%	.500
ROTOR	.000	ELEV	.000
ROTOR	.000		

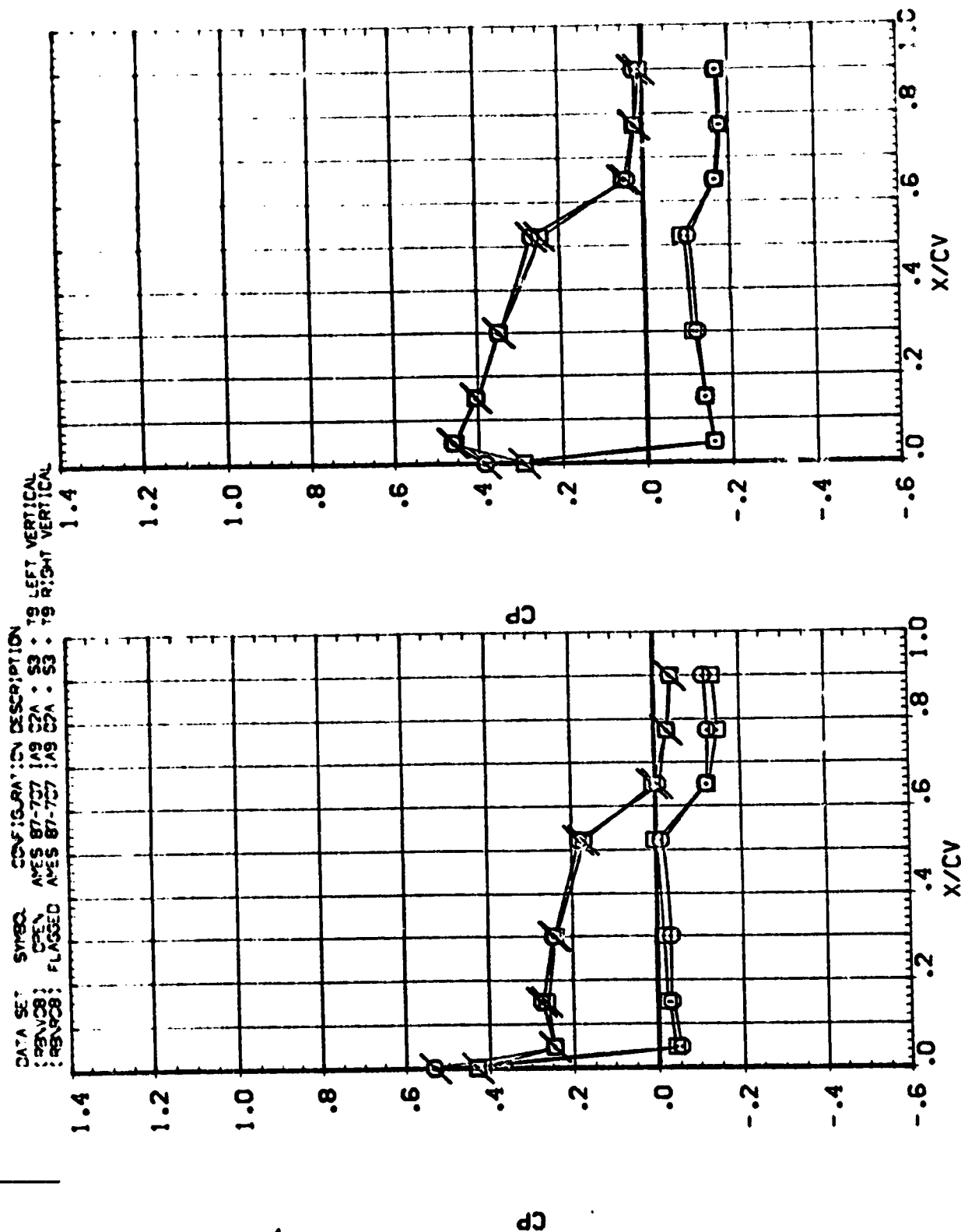


DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (P8V08) OPEN ASES 87-707 : AS 02A : S3 : 19 LEFT VERTICAL
 (P8V08) FLAGGED ASES 87-707 : AS 02A : S3 : 19 RIGHT VERTICAL

SYMBOL Z/HIN BETAT MACH

○	.158	4.300	2.498
□	.316	8.550	
◇	.600		

CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

88

ALPHA 4.000
 RUDDER 1.000
 RUDER 1.000

ALPHA 4.000
 RUDDER 1.000
 RUDER 1.000

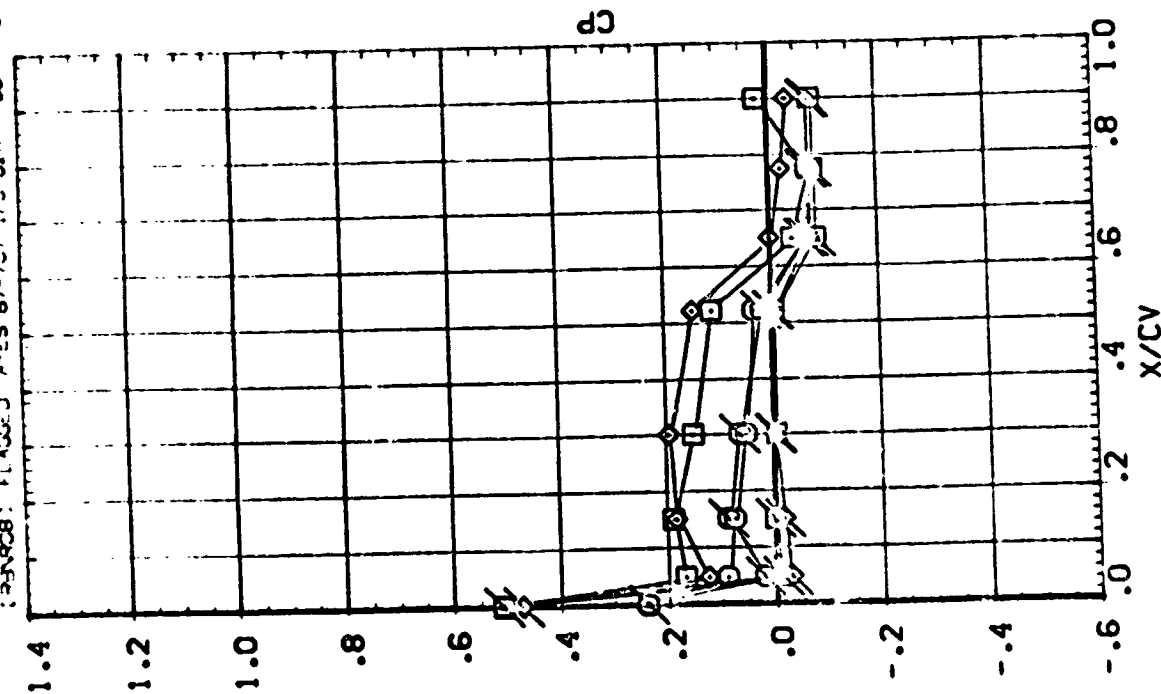
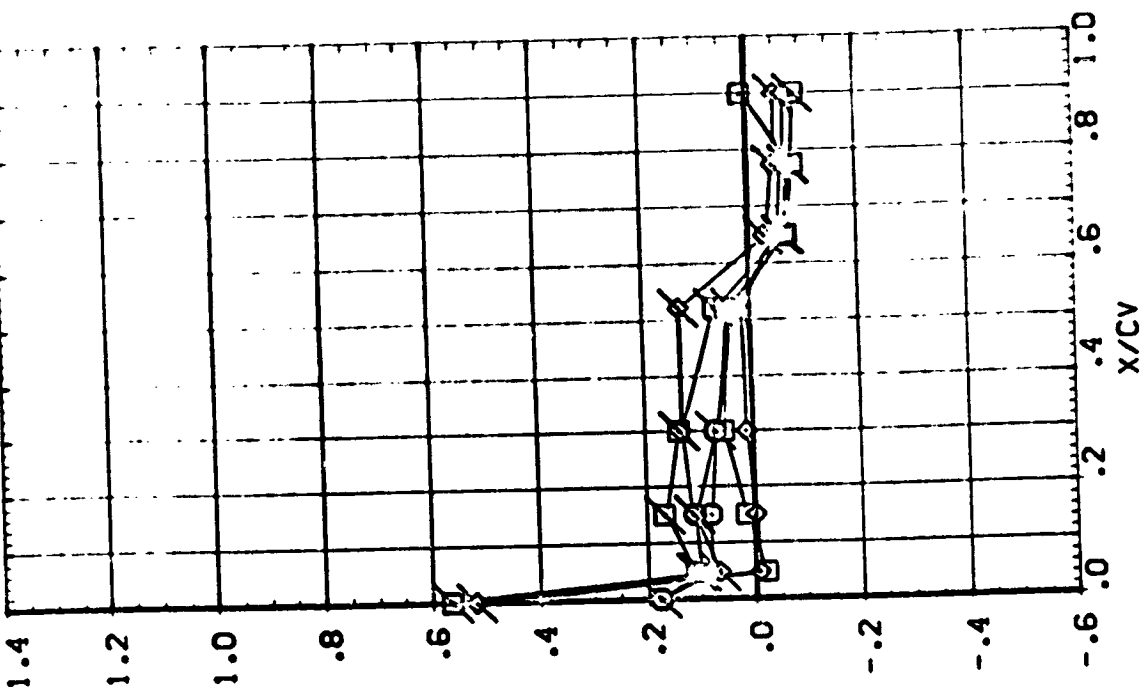
WACH 2.999

BEAT 4.260
 2.210

1/3 .158
 .316
 .600

5.000
 1.000
 0.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (REMARKS) CEN ASES 87-757 / A9 CDA : S3 : 19 LEFT VERTICAL
 (REMARKS) FLAGGED ASES 87-757 / A9 CDA : S3 : 19 RIGHT VERTICAL

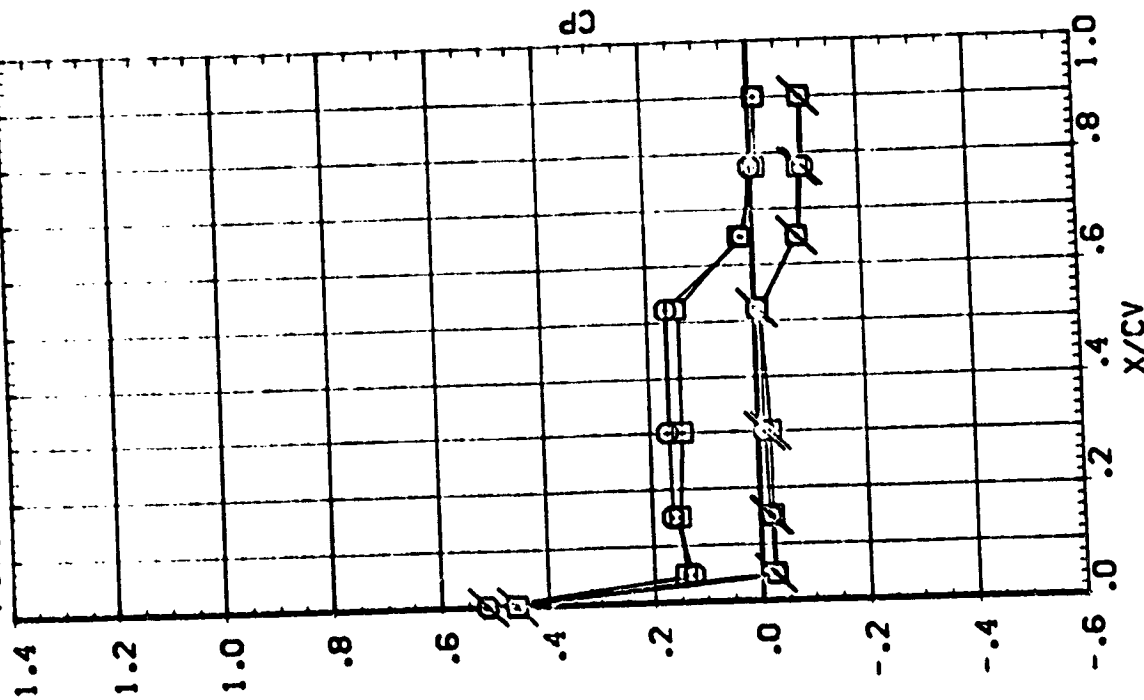
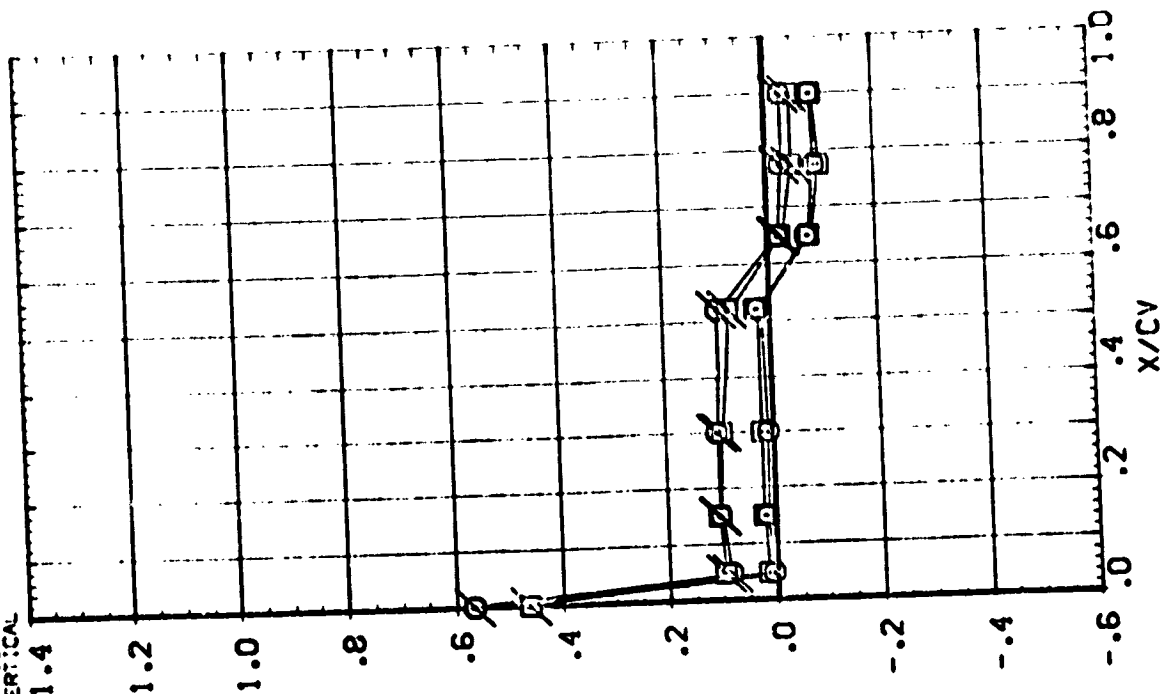


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES
 ALPHA 1.000 0.000 1.000
 RUDER .000 ELEVON .000
 RUDER 2.000

SYMBOL 1/3 .84C .975
 3E "A" 7.999
 -4.26C 2.21C

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 :R8A:R8B: OPEN ASES 87-707 :A9 C2A : S3 : T9 LEFT VERTICAL
 :R8A:R8B: FLASSED ASES 87-707 :A9 C2A : S3 : T9 RIGHT VERTICAL

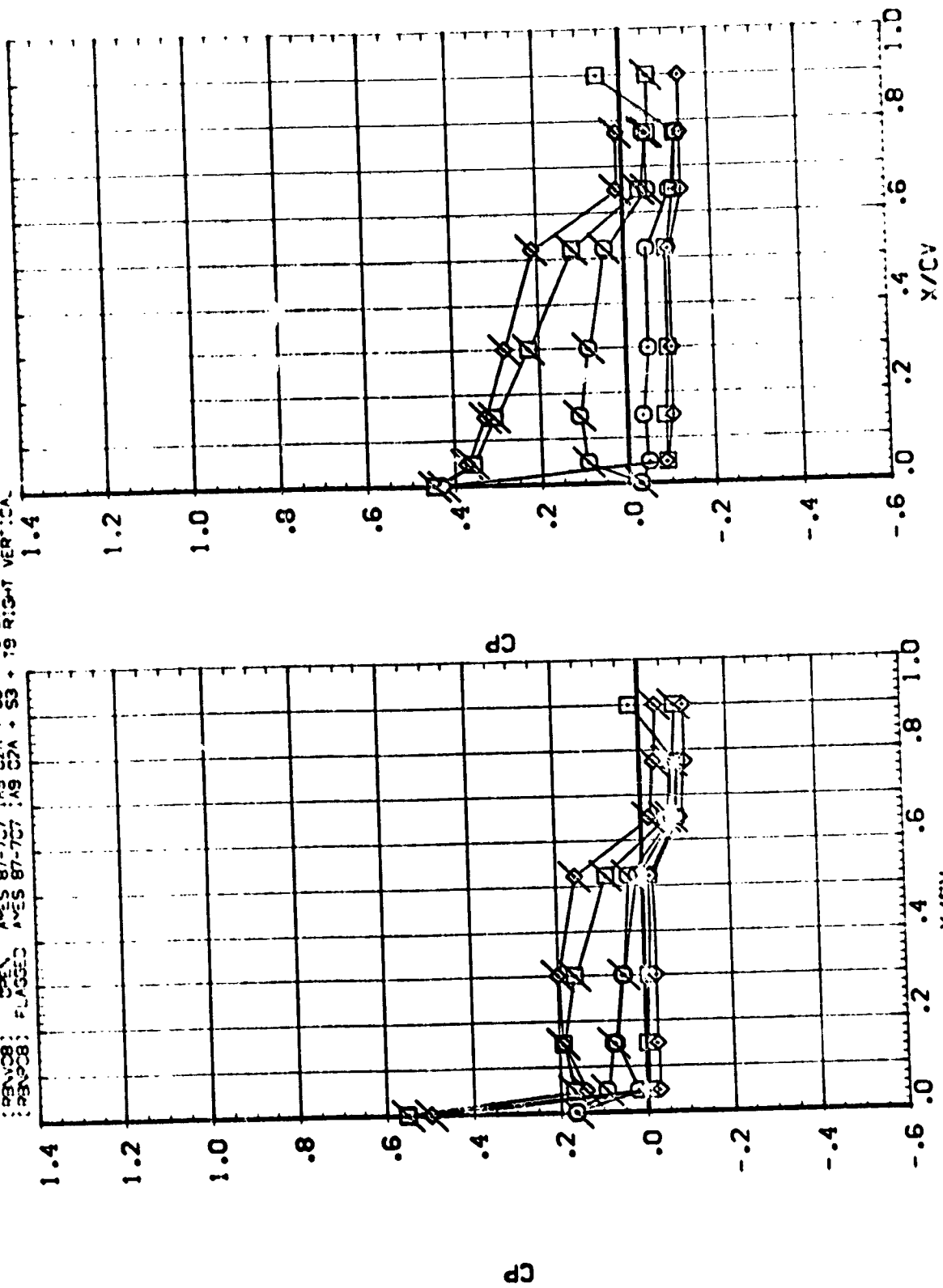


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL Z/B/ BEAT W/C-
 .158 4.370 2.999
 .316 8.700
 .600

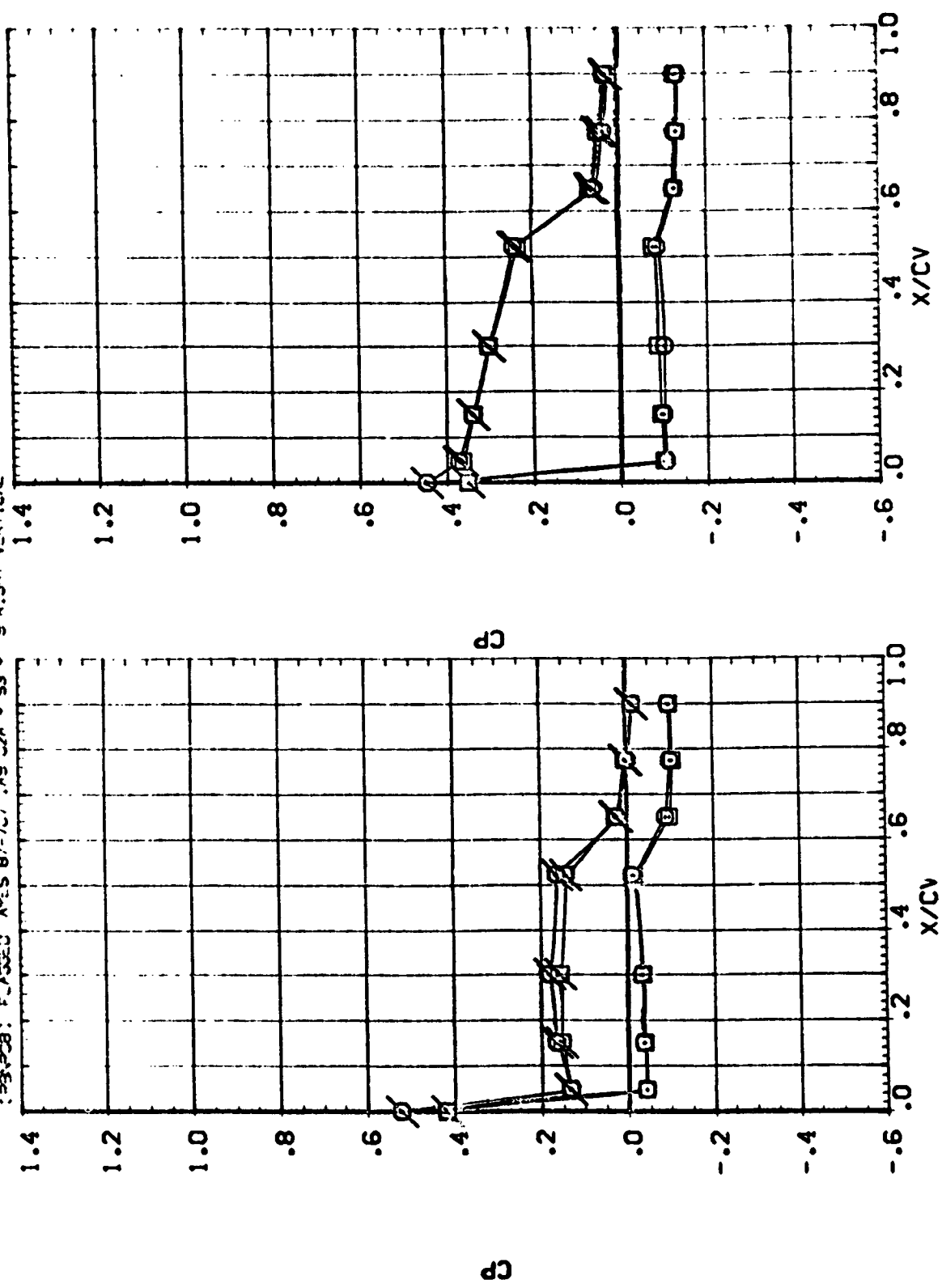
PARAMETRIC VALUES
 A.D.M.T. 4.000 0.000
 POWER .000
 PUFF 0.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 : PENV08 : OPEN AXES 87-707 : A9 C2A + S3 : 19 LEFT VERTICAL
 : PENV08 : FLAGGED AXES 87-707 : A9 C2A + S3 : 19 RIGHT VERTICAL

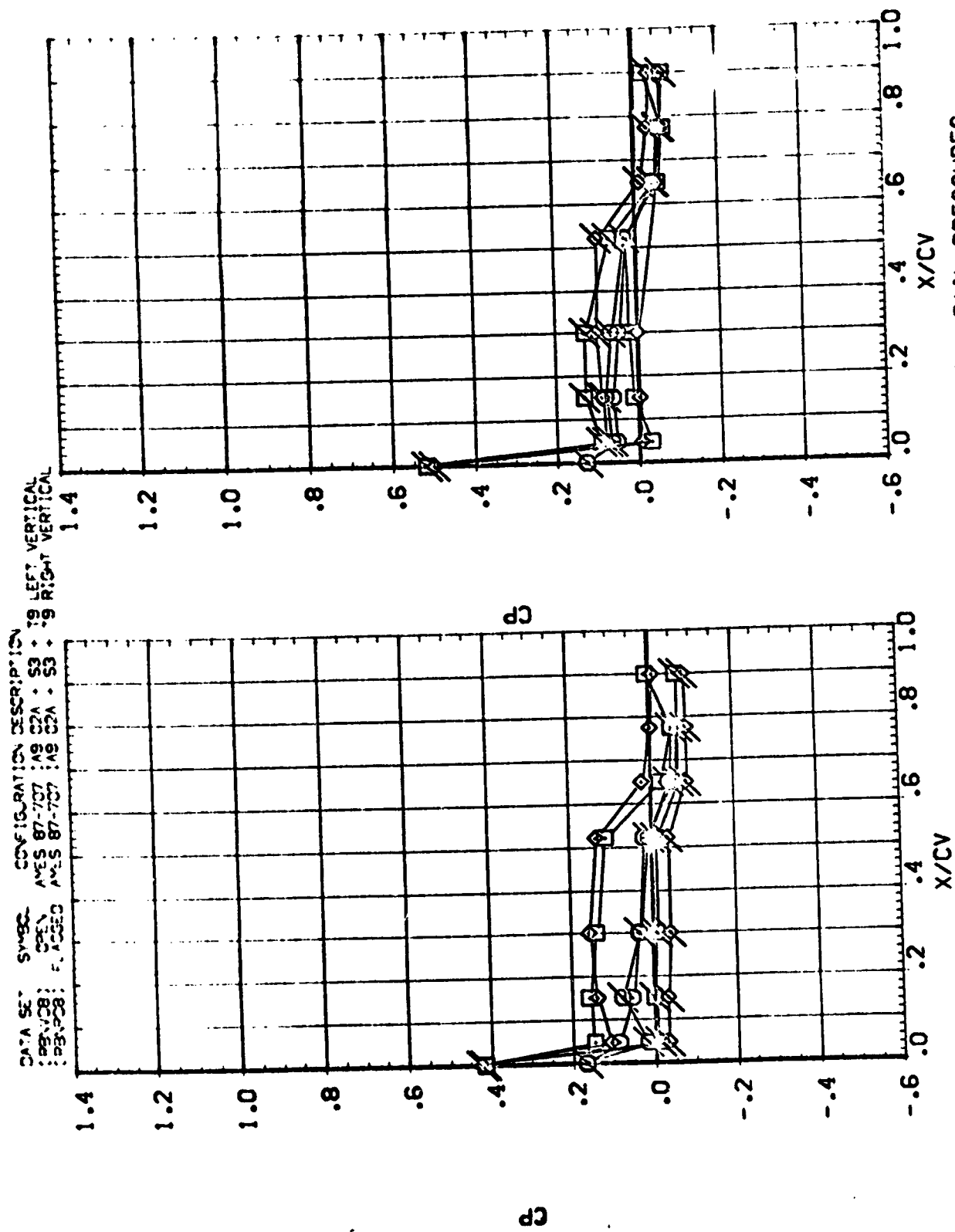


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

DATA SET SYMBOL CONFIGURATION DESCRIPTION
: 88-108 : OPEN : AYES 87-707 : A9 C7A : S3 : 19 LEFT VERTICAL
: 88-108 : FLASSED : AYES 87-707 : A9 C7A : S3 : 19 RIGHT VERTICAL

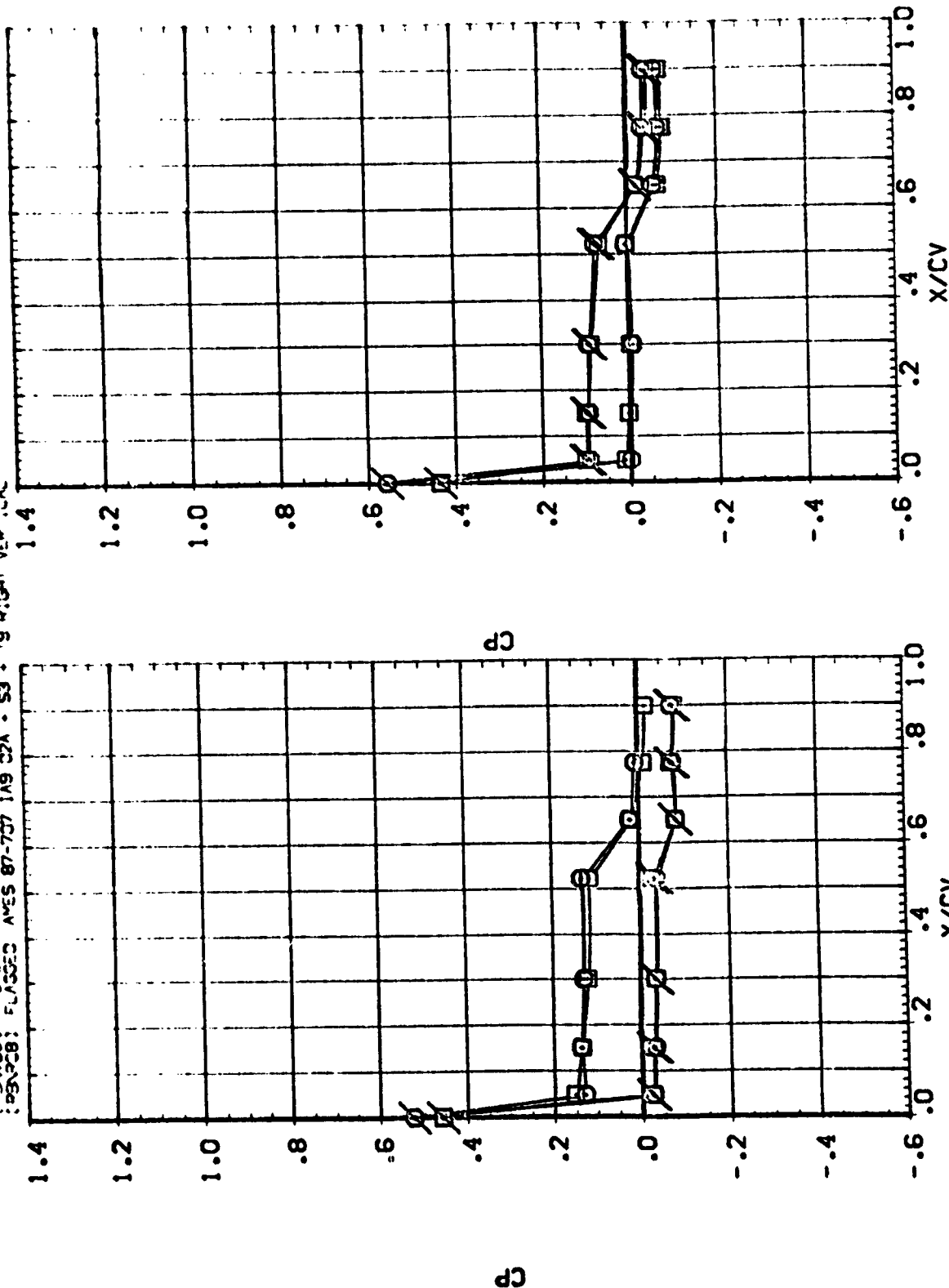


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

DATA SET: SYMBO
 CONFIGURATION DESCRIPTION
 : OPEN AMES 87-707 IAS 02A : S3 : T9 LEFT VERTICAL
 : FLAPPED AMES 87-707 IAS 02A : S3 : T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

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SYMB:
 O:
 ◇:

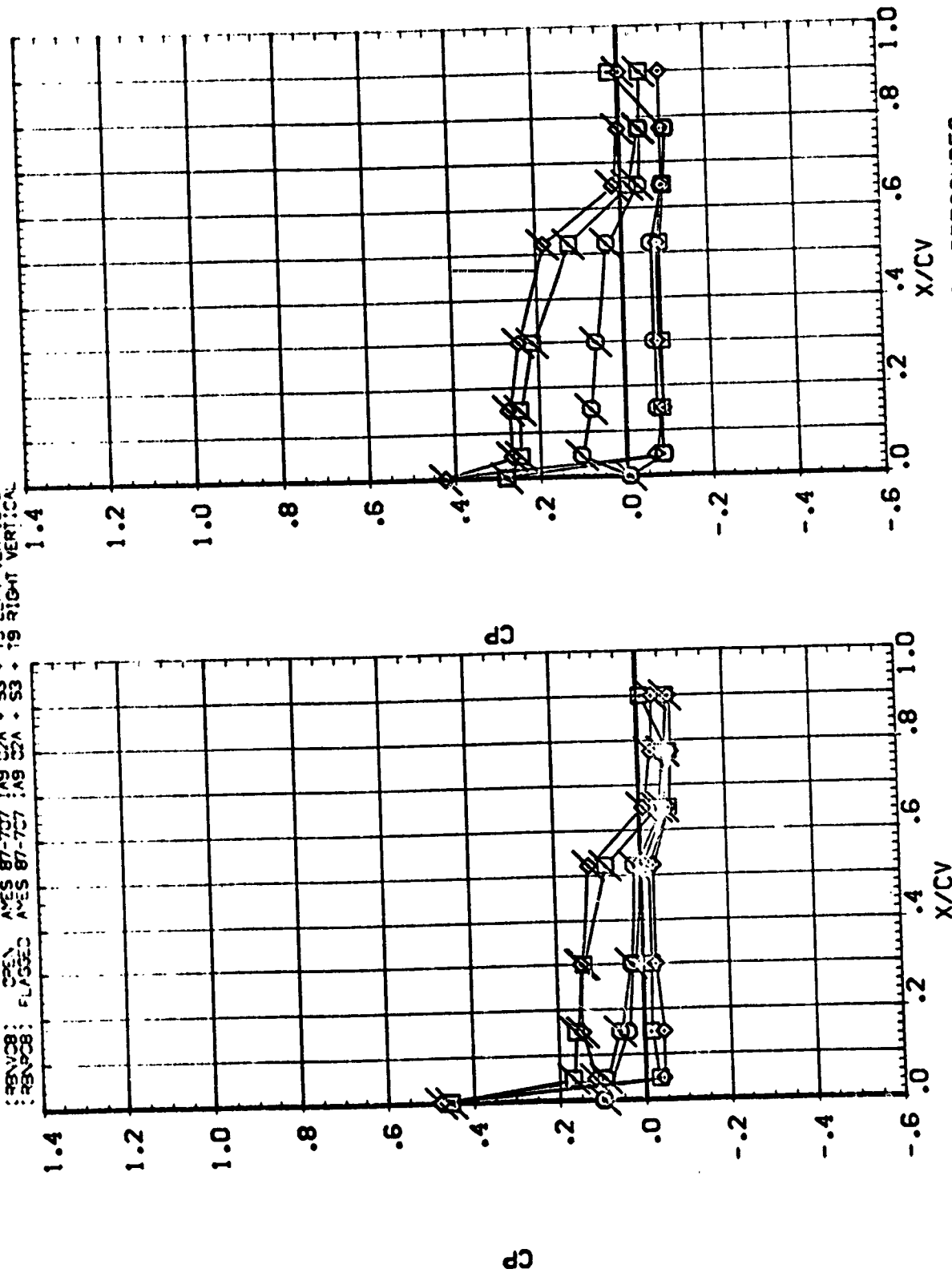
Z/BN:
 .158
 .316
 .600

BETA:
 4.460
 8.860

WAC:
 3.502

PARAMETRIC VALUES
 ALPHAT 4.000 DBINC .500
 RUDER .000 ELEVON .000
 RUOTLR .000

DATA SET: SYMB: CONFIGURATION DESCRIPTION
 :RNVDB: OPEN AYES 87-707 :A9 C2A : S3 : T9 LEFT VERTICAL
 :RNVDB: FLAGED AYES 87-707 :A9 C2A : S3 : T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

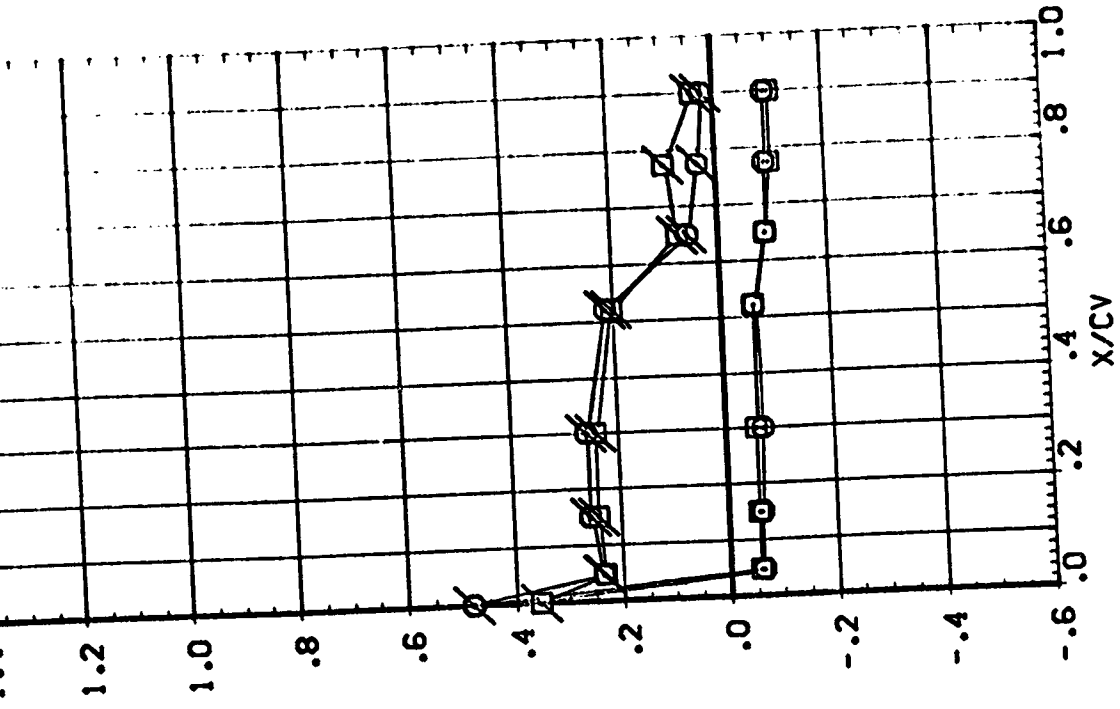
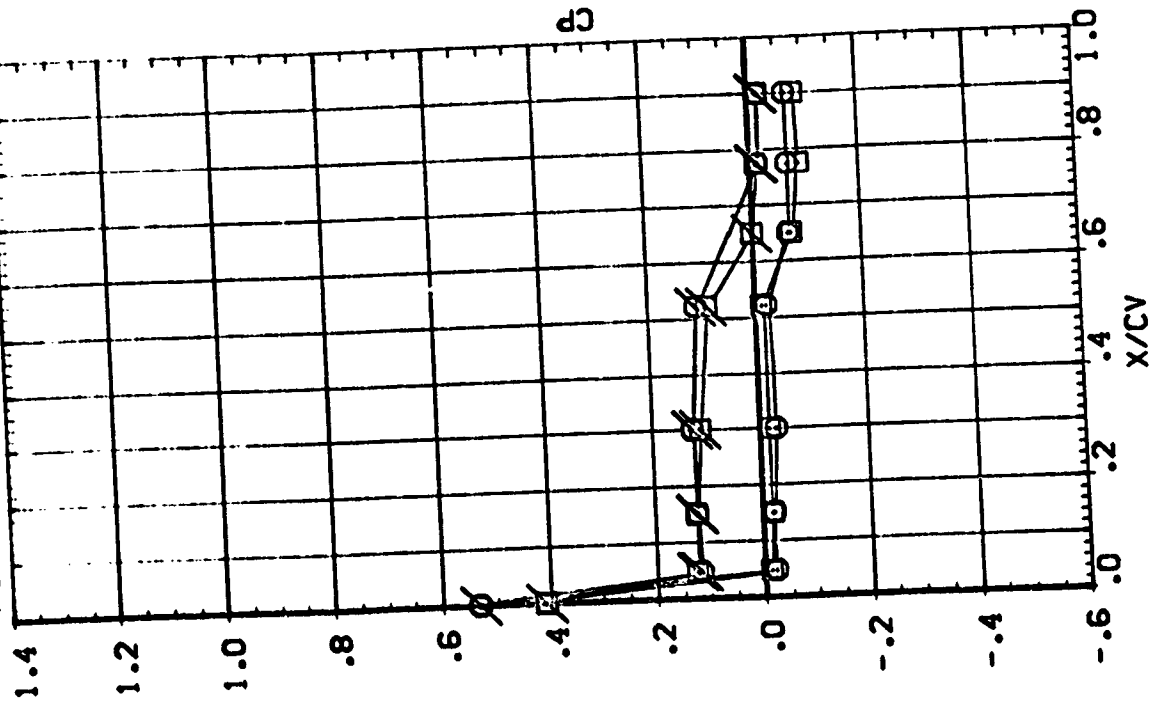
ALPHA
RUDER
RUDER

1.00
1.00
1.00

1.00
1.00
1.00

1.00
1.00
1.00

DATA SET: SYMBO: CONFIGURATION DESCRIPTION
 : 28V08 : OPEN : AMES 87-707 : AS 27A : S3 : 19 LEFT VERTICAL
 : 28V08 : FLAGED : AMES 87-707 : AS 27A : S3 : 19 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

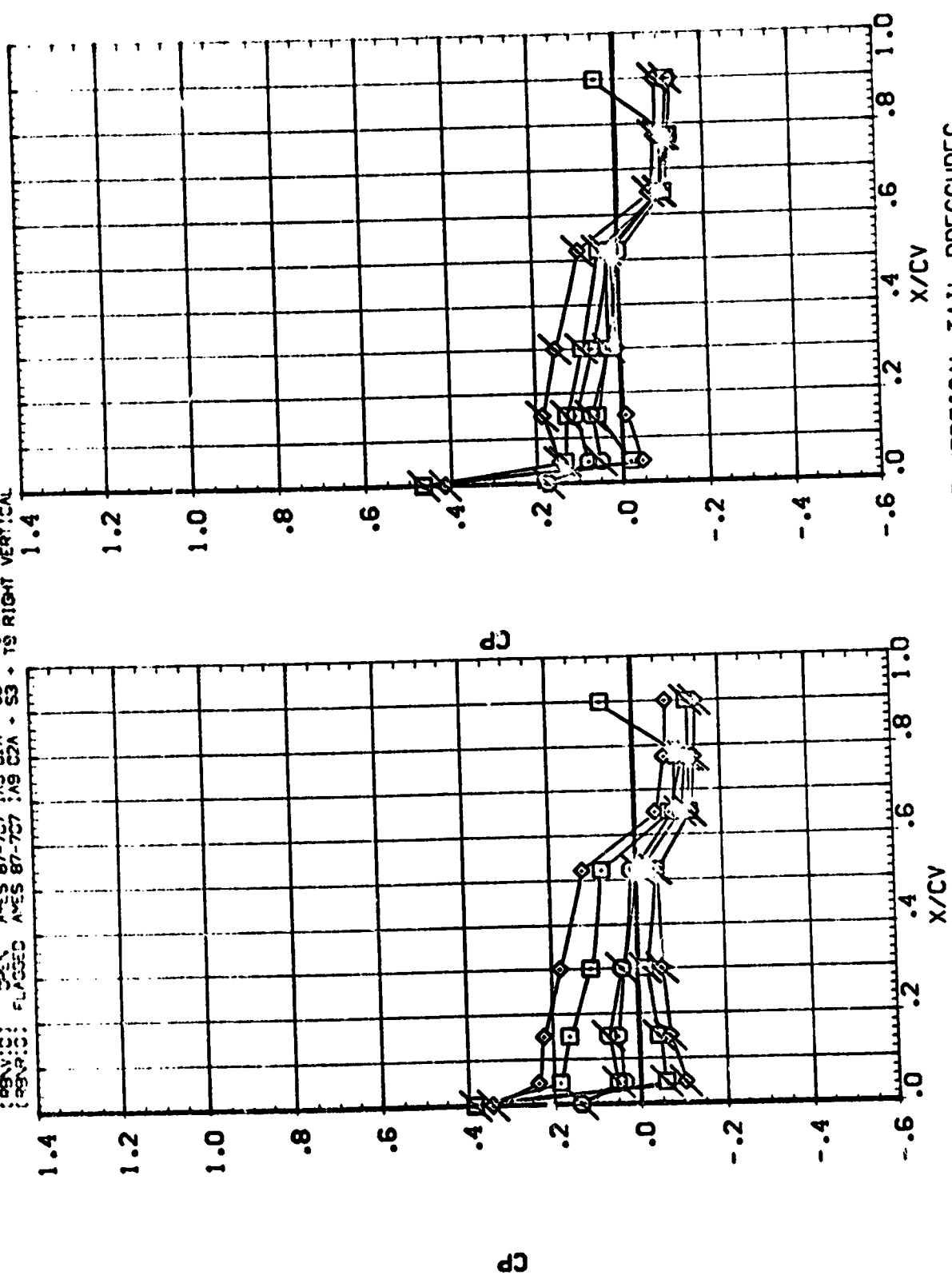
III

SYMC: 1/BN
 .158
 .316
 .600

BETA: WAC-
 -4.17C 2.498
 2.18C

PARAMETRIC VALUES
 ALPHAT 8.000 0981N .500
 PLODER .000 ELEVON .000
 RLOFLR .000

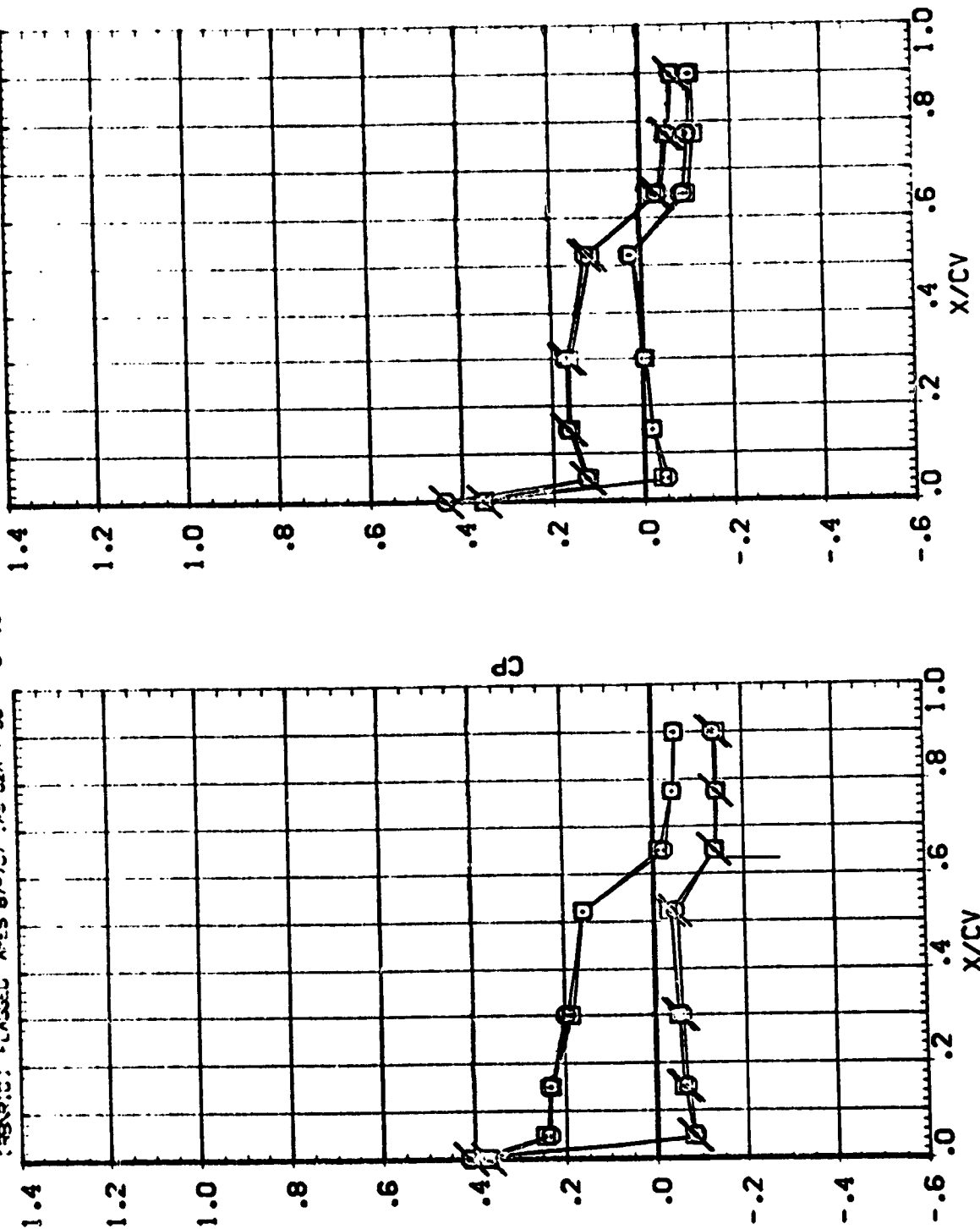
DATA SET: SYMB: CONFIGURATION DESCRIPTION
 : OBSV: OPEN ANES 87-707 : AS C2A + S3 : T9 LEFT VERTICAL
 : OBSV: FLAGGED ANES 87-707 : AS C2A + S3 : T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES
 ALPHAT 8.000 DPGIC 0.000
 RUDER 0.000 ELEVON 0.000
 RUDDER 0.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 : BENVIC OPEN AXES 87-707 : A9 C2A : S3 : T9 LEFT VERTICAL
 : BENVIC FLASSED AXES 87-707 : A9 C2A : S3 : T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

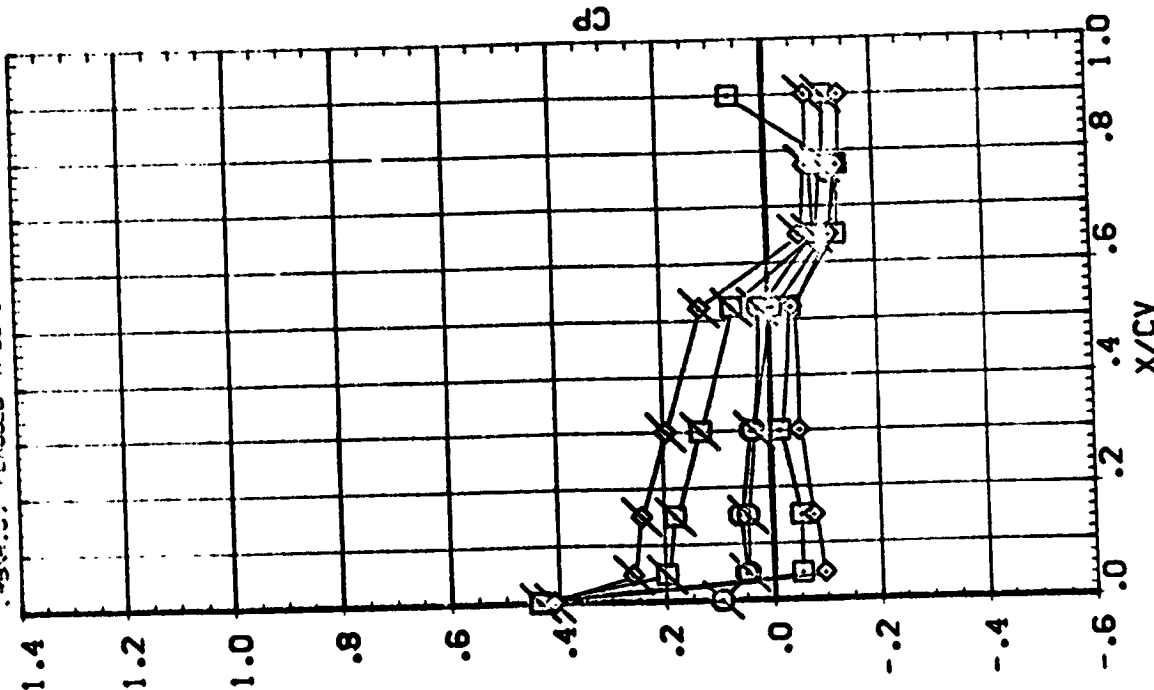
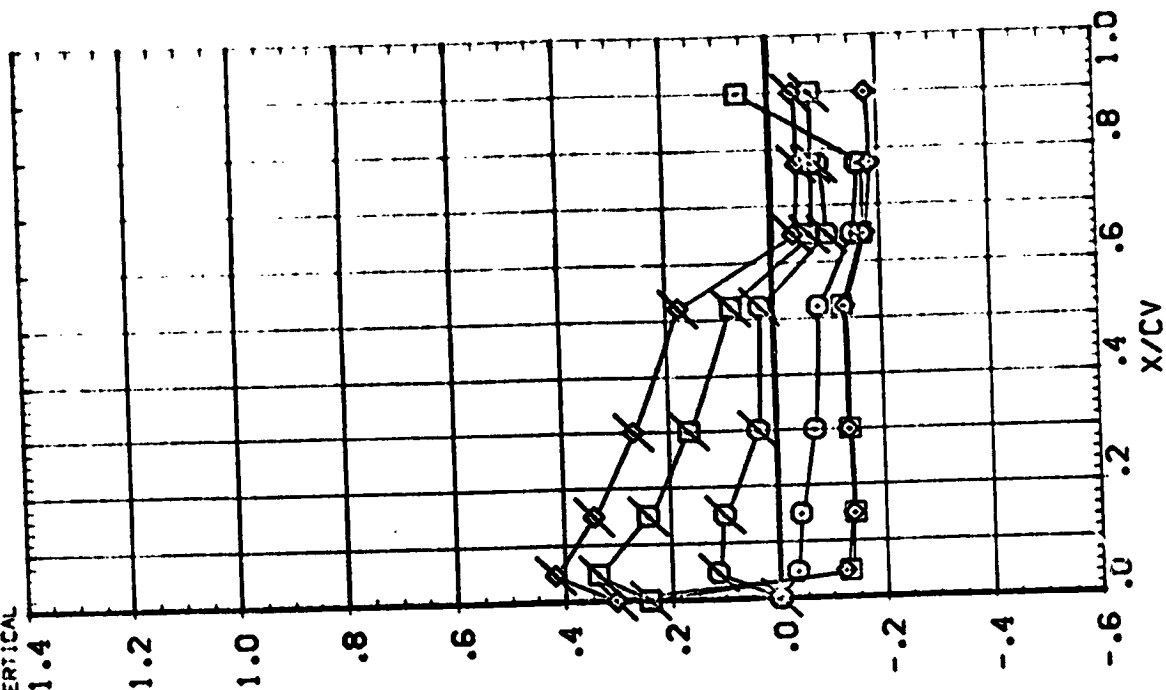
PARAMETRIC VALUES
 8.000 8.000 8.000
 .000 .000 .000
 .000 .000 .000

ALPHA
 RUDDER
 RUDDER

BETA
 4.370 7.198
 8.580

SYMBOL Z/B
 .158
 .316
 .633

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 : 87-707 : OPEN : AYES 87-707 : A9 C2A : S3 : 19 LEFT VERTICAL
 : 87-707 : FLAGGED : AYES 87-707 : A9 C2A : S3 : 19 RIGHT VERTICAL

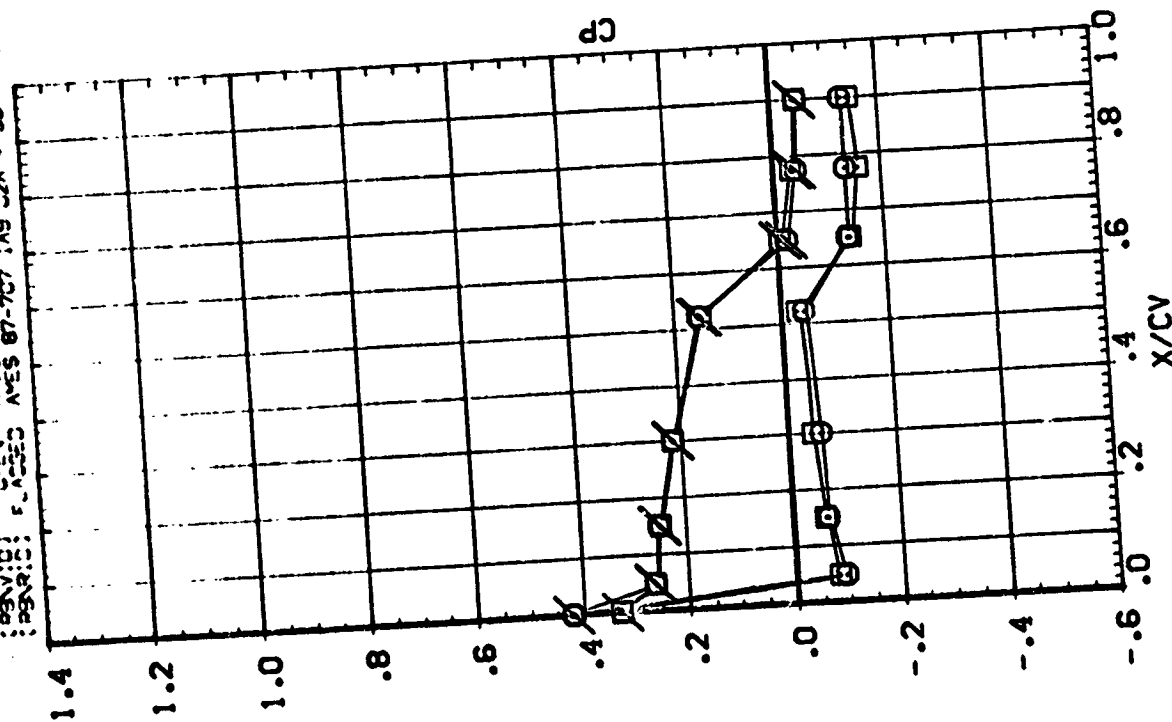
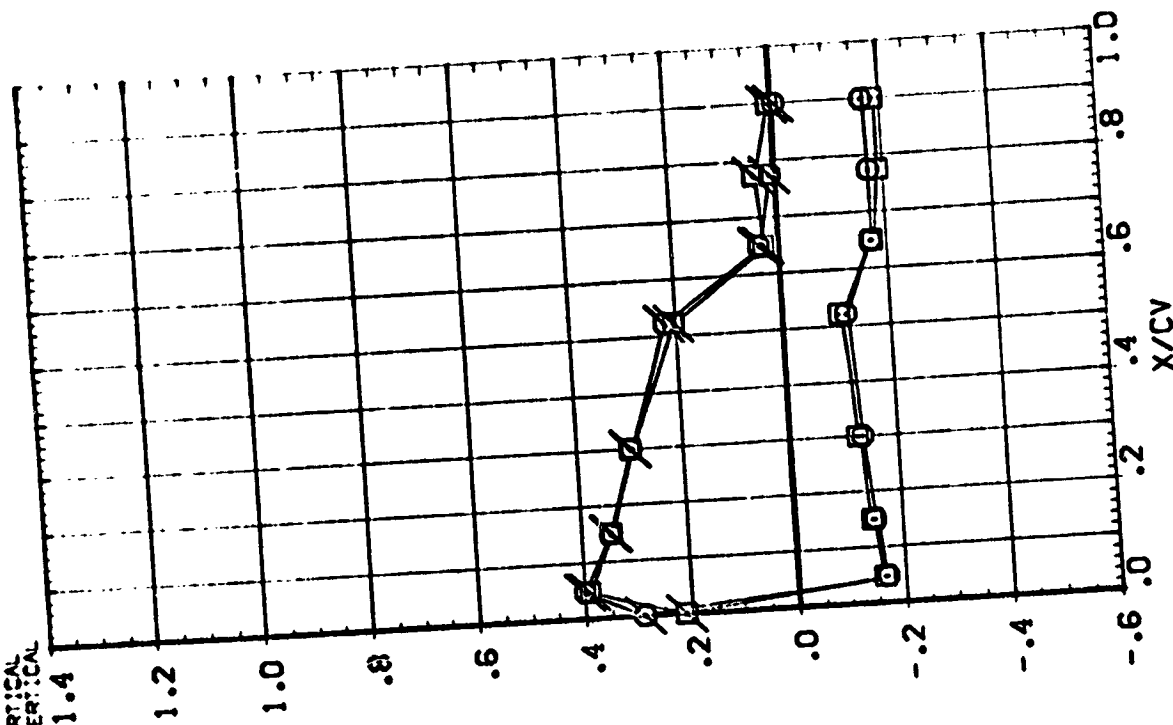


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

4.000
R.000

SYNCH 2/3: .040
4.300 2.498
8.580

DATA SET: SYMBOL: CONFIGURATION DESCRIPTION
: 03N: 01: 03N: AVE 87-707 : A9 C2A : S3 : 19 LEFT VERTICAL
: 03N: 02: 03N: AVE 87-707 : A9 C2A : S3 : 19 RIGHT VERTICAL

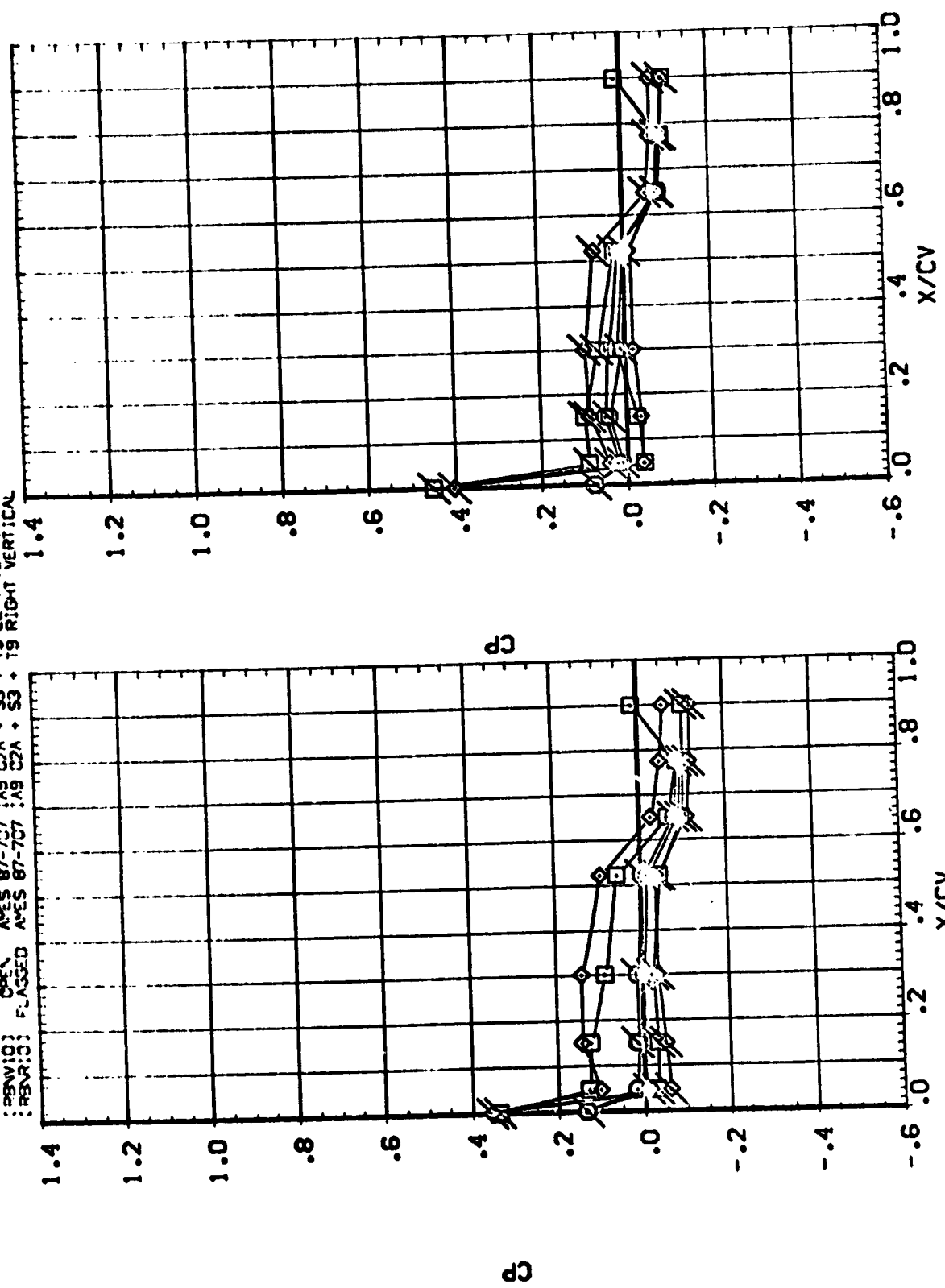


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES
 ALPHA 8.000 398.14C .500
 RUDER .000 ELEVON .000
 ROLLR .000

SYNTH Z/BV .158 MACH 2.999
 BETA 1 -4.240
 .316 2.230
 .600

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 :R8V101 OPEN ASES 87-707 :A9 C2A : S3 : 19 LEFT VERTICAL
 :R8V101 FLAGGED ASES 87-707 :A9 C2A : S3 : 19 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL Z/B₁ BETA⁺ MACH

0.198 4.400 2.999

0.316 8.740

0.500

ALPHA⁺ 0.000 0.000 0.000

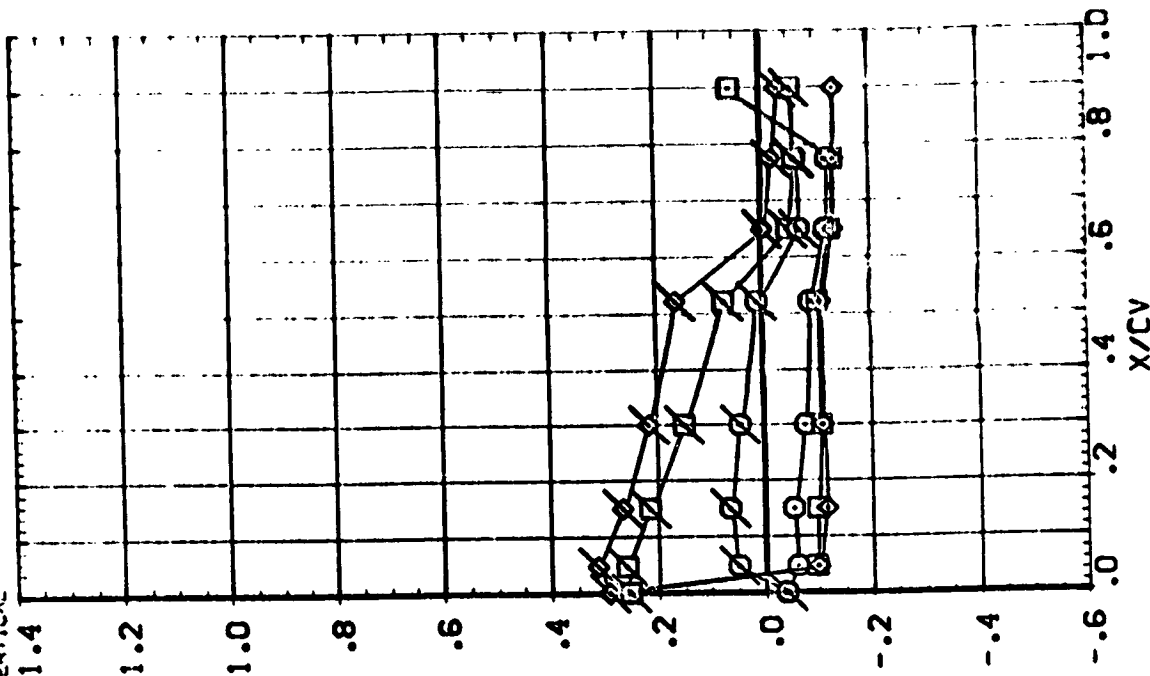
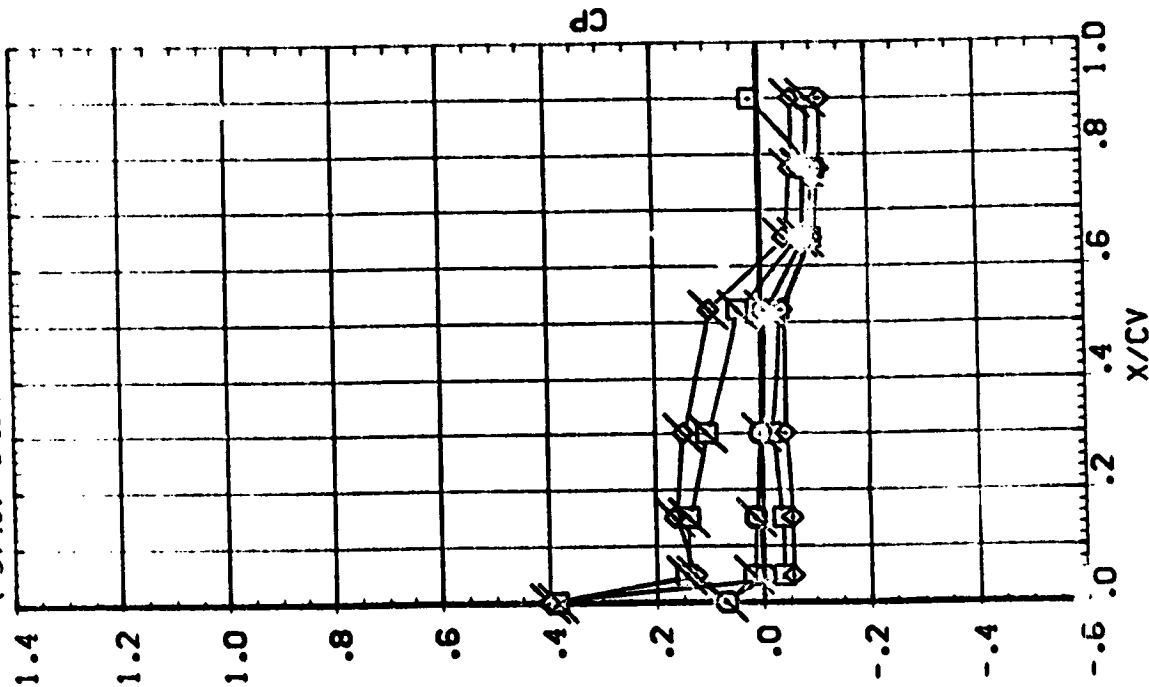
0.000

0.000

0.000

0.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 : 88-107 : OPEN : AXES 87-707 : AG 02A : 53 : 79 LEFT VERTICAL
 : 88-107 : FLAGGED : AXES 87-707 : AG 02A : 53 : 79 RIGHT VERTICAL



- CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETER VALUES

ALPHA	8.000	99.15
RUDDER	1.000	1.000
RUDDER	1.000	1.000

SWBC 7/3. 840 875

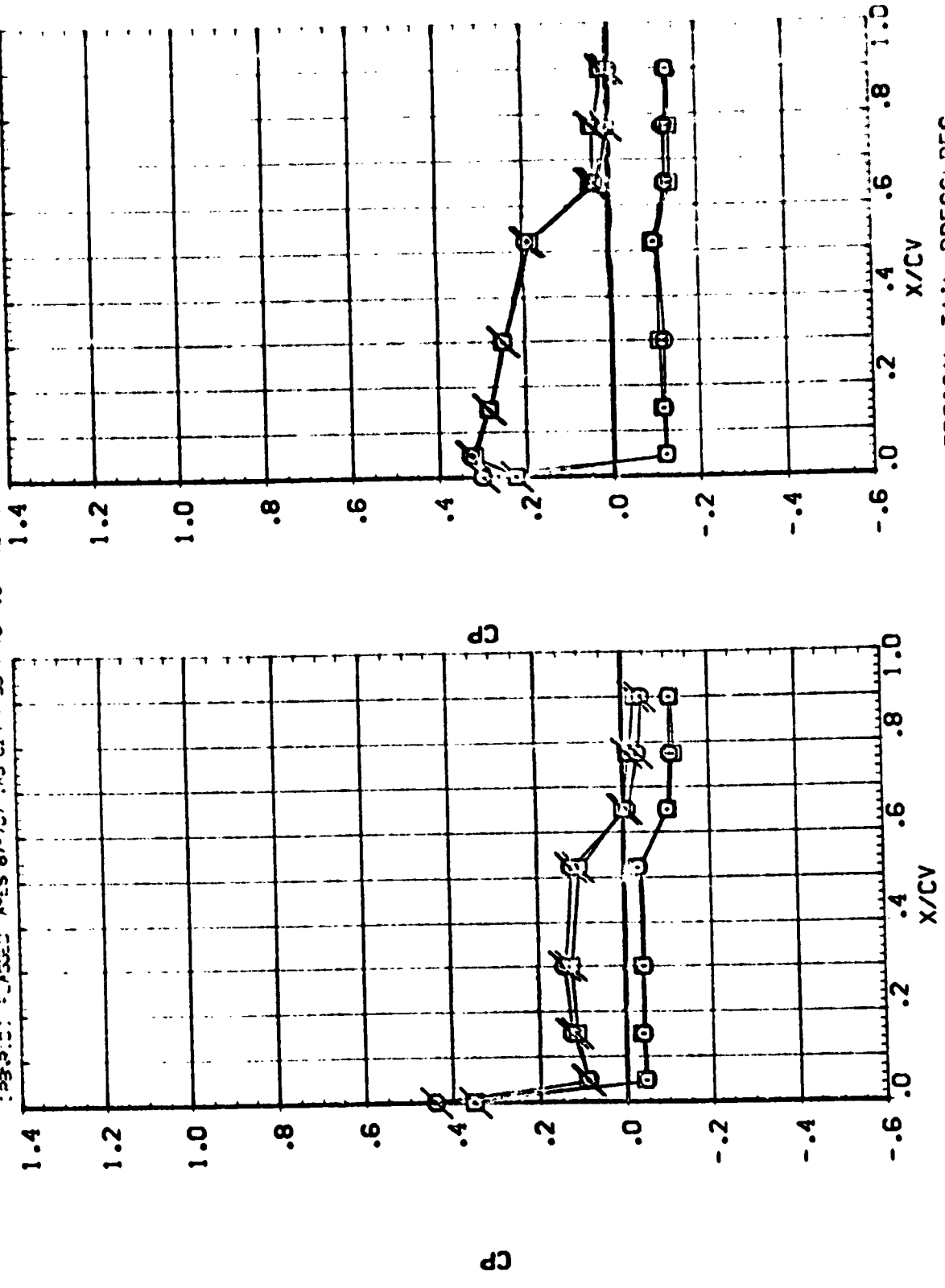
SE 4.400 2.999

W 8.740

DATA SET: SWBC

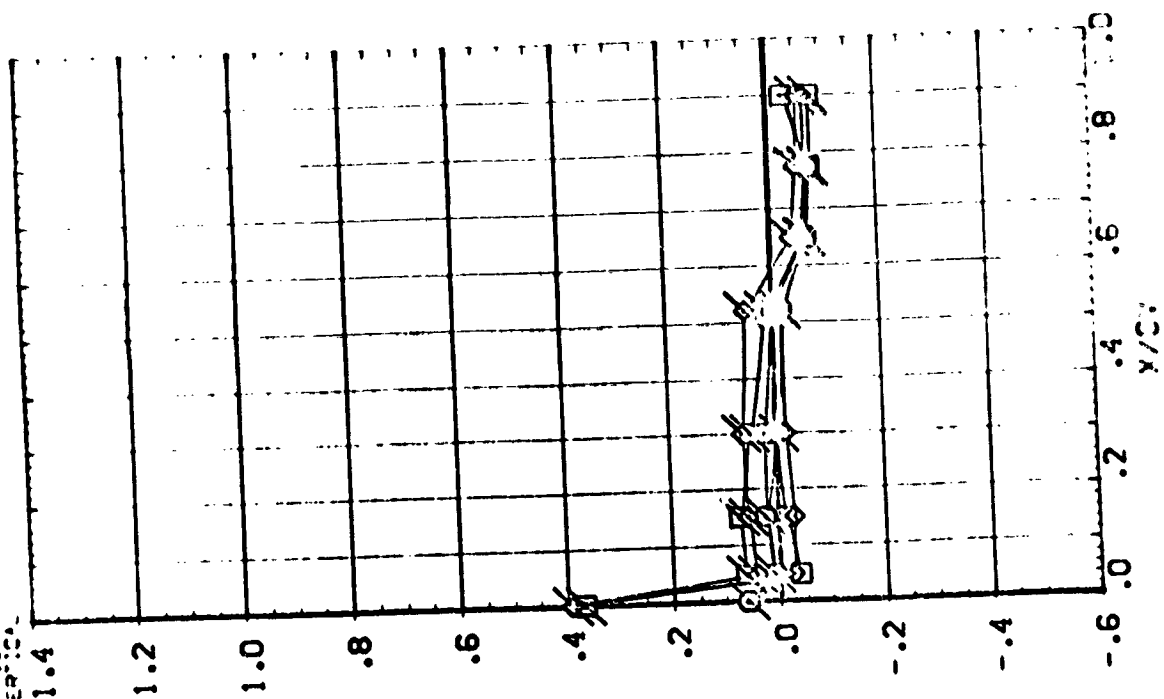
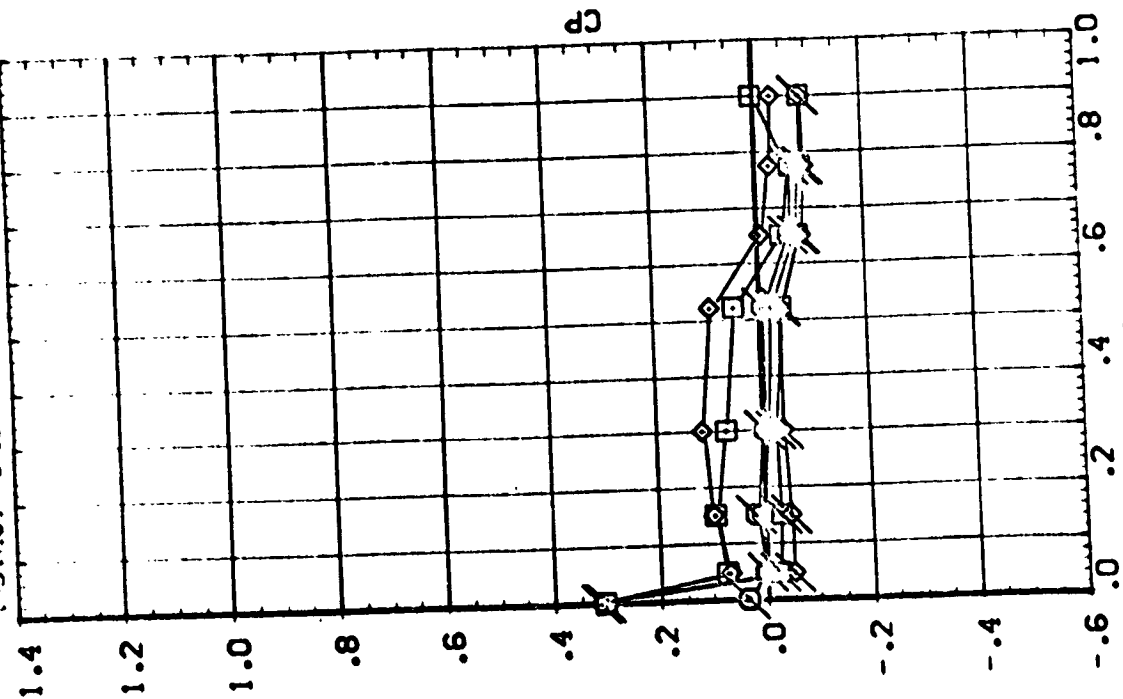
DESCRIPTION: AYES 87-707 (A9 02A + S3 + 19 LEFT VERTICAL)

DESCRIPTION: AYES 87-707 (A9 02A + S3 + 19 RIGHT VERTICAL)



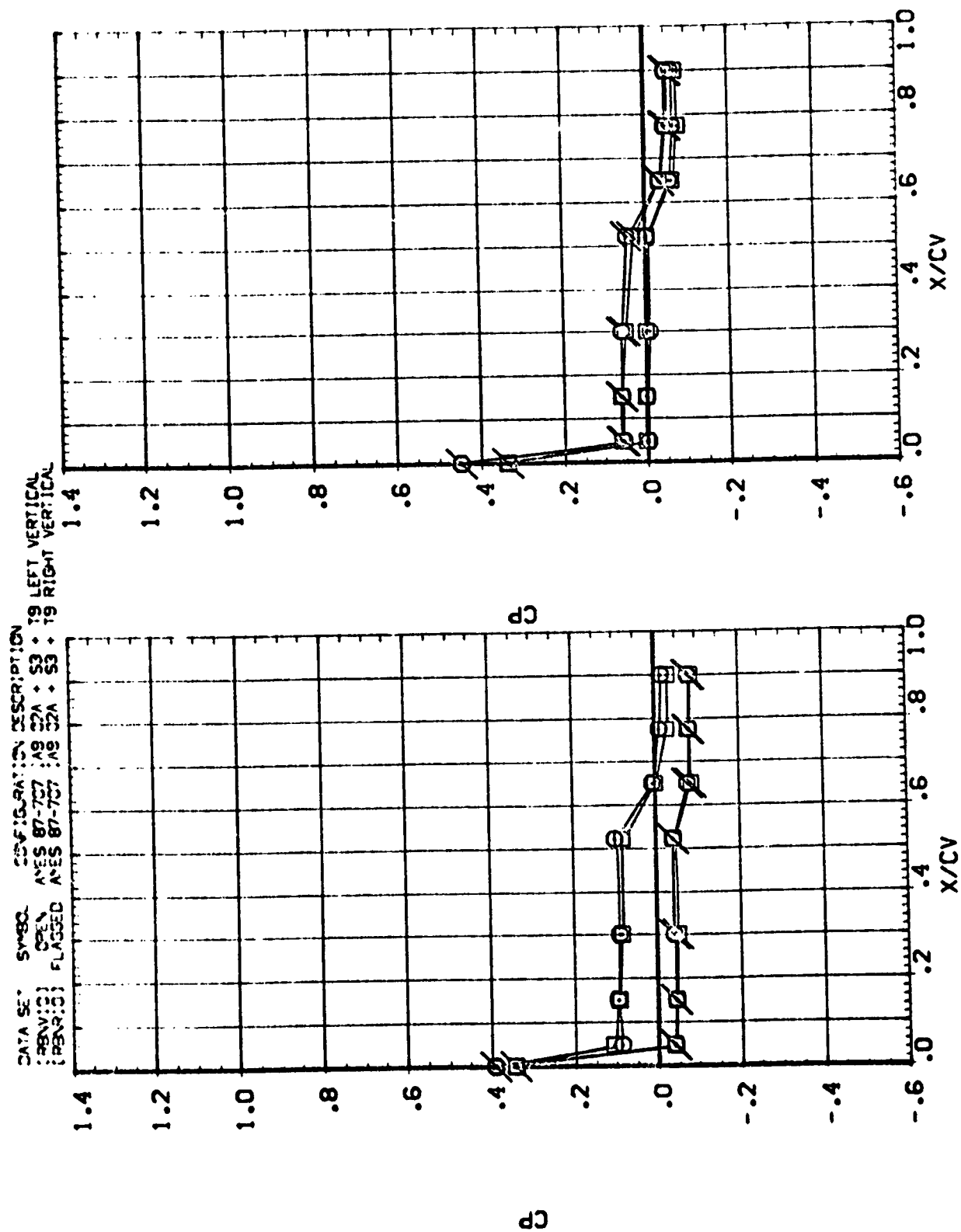
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

BEAT	WAGE
-4.3%	3.502
2.760	

[illegible][illegible][illegible]

ALPHAT 8.000 998.2
 PLODER .000 ELEVON
 RJOFLP .000

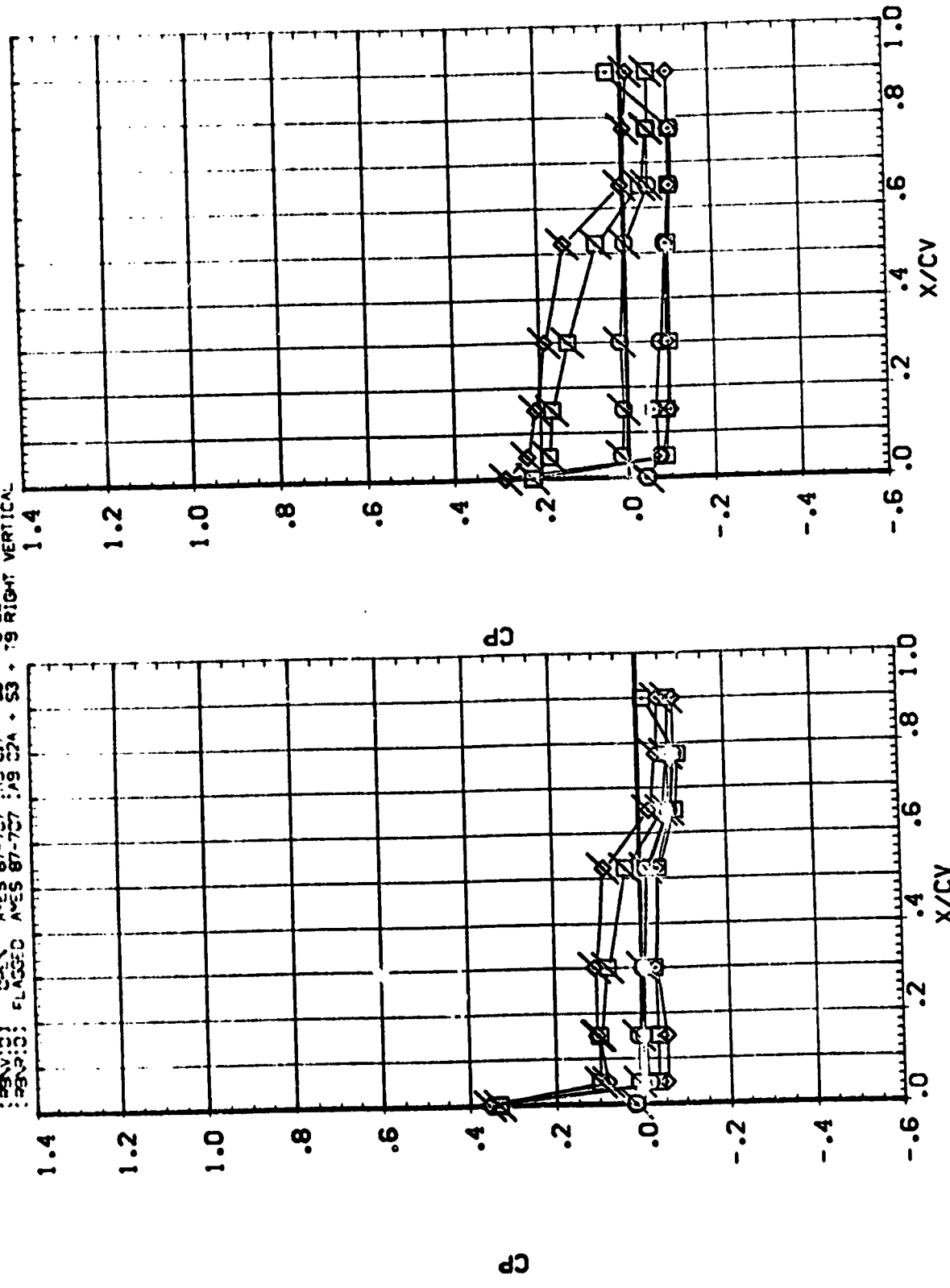
SINGC 2/3V .840
 BEAT -4.310
 WACH 3.502



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	2/3/1	BETA	WACH	ALPHA	PARAMETER VALUES
0.00	.150	4.480	3.507	RJDER	8.000 0.000 0.000
0.00	.315	8.900		RJDER	0.000 0.000 0.000
0.00	.600			RJDER	0.000 0.000 0.000

DATA SET: SYMBOL CONFIGURATION DESCRIPTION
 : 88V:01 : OPEN : AYES 87-707 : A3 : 22A : S3 : 19 LEFT VERTICAL
 : 88V:02 : FLAGGED : AYES 87-707 : A3 : 22A : S3 : 19 RIGHT VERTICAL

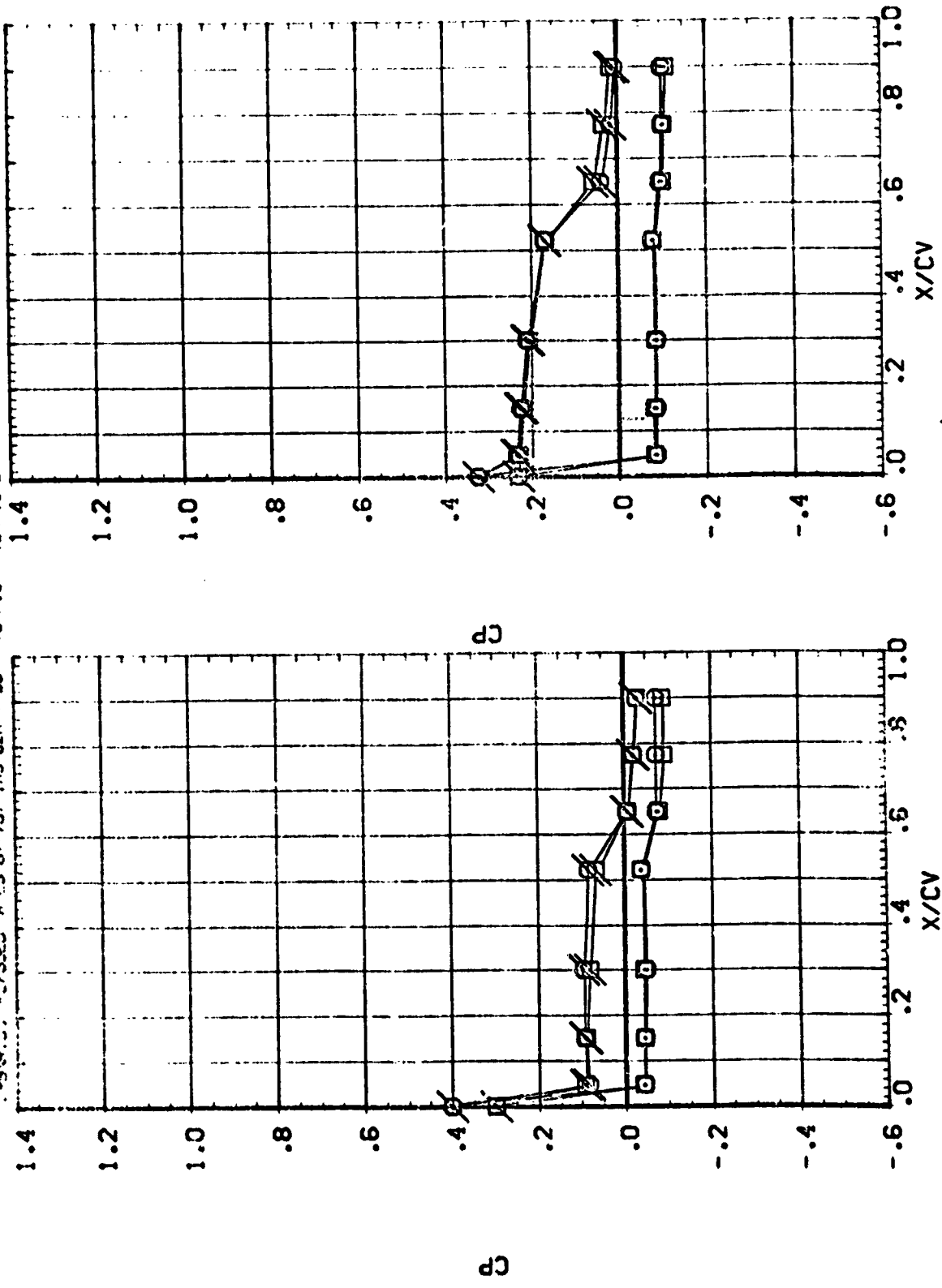


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETER VALUES
 ALPHAT 8.000 299.14
 RUDDER .000 0.000
 RUDDLR .000 0.000

SYMBOL Z/BY BETAT WACH
 .84C .97C 4.48C 3.502

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 00101 OPEN ASES 87-737 1A9 02A + S3 + T9 LEFT VERTICAL
 00102 0.75500 ASES 87-737 1A9 02A + S3 + T9 RIGHT VERTICAL



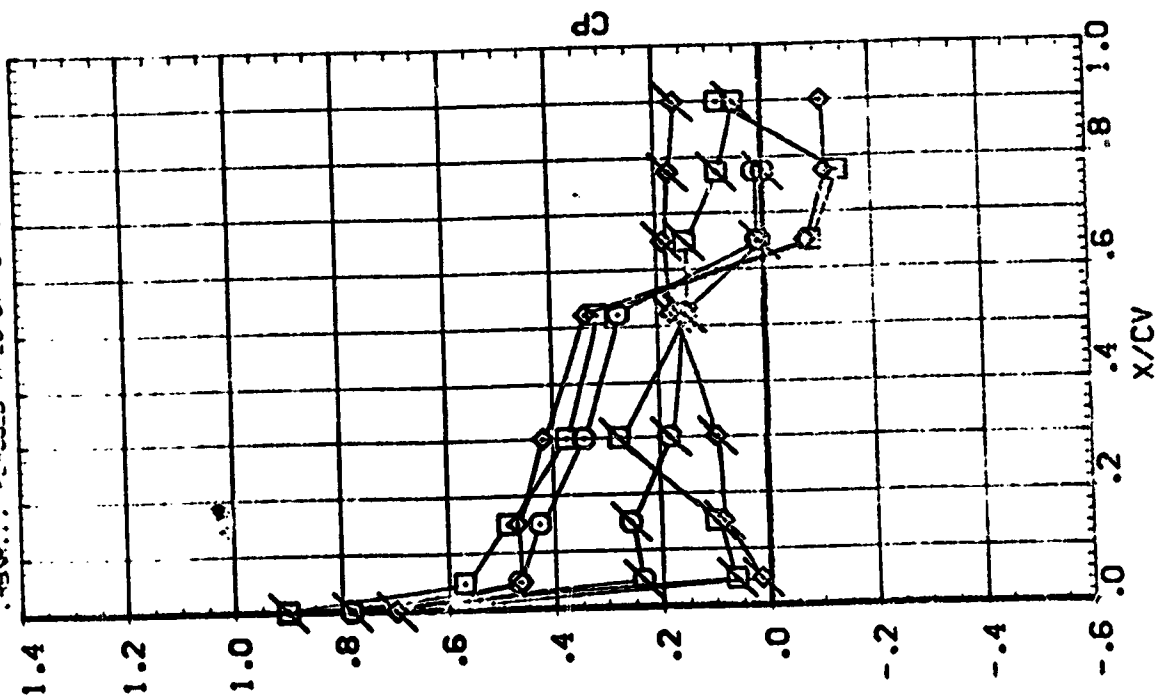
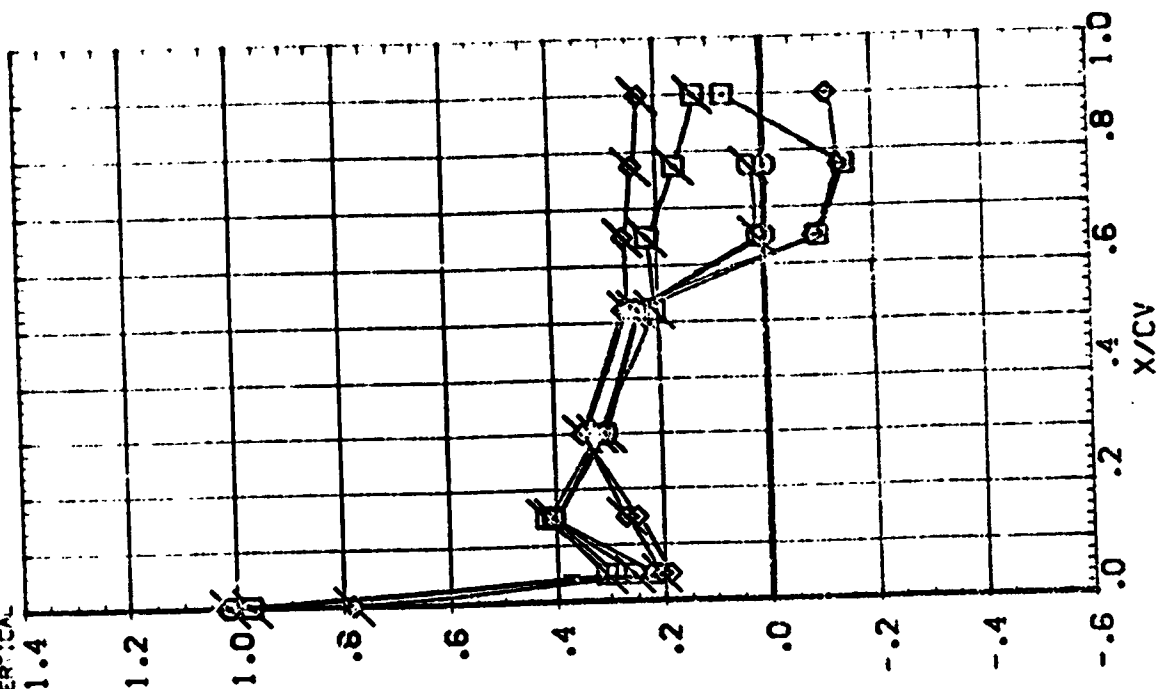
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES
 ALPHA: -8.000
 RUDER: -15.000
 ELEV: .500

ALPHA: -8.000
 RUDER: -15.000
 ELEV: .500

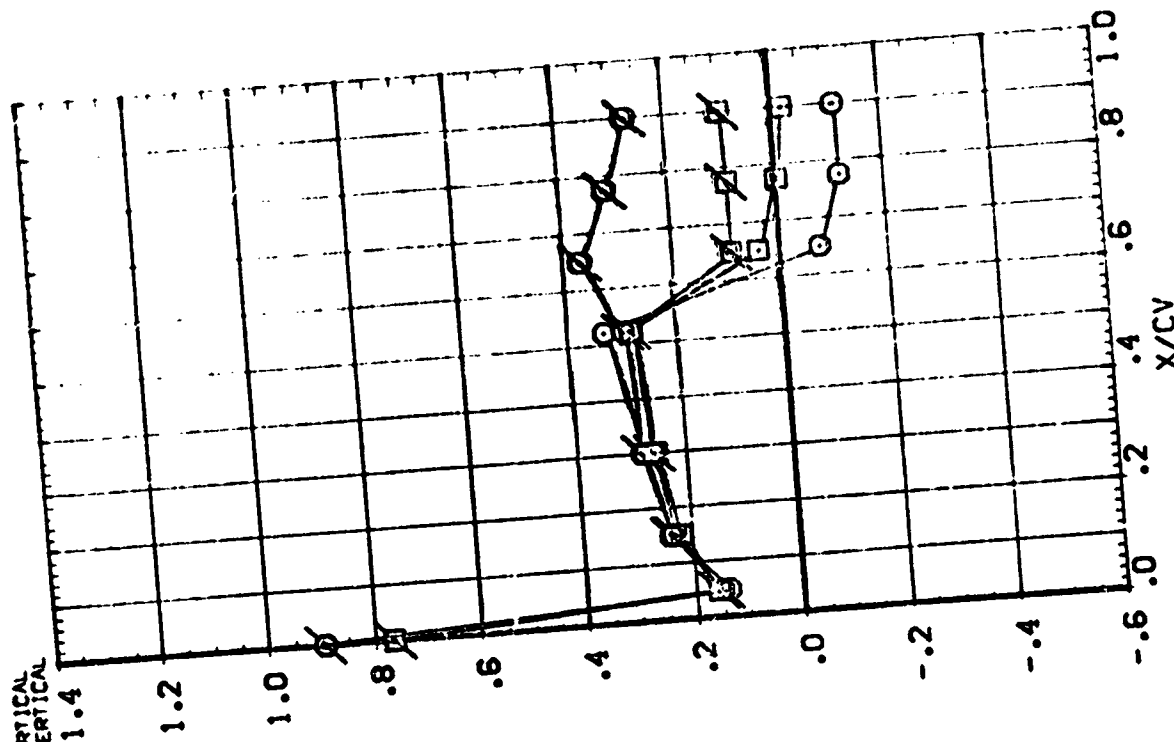
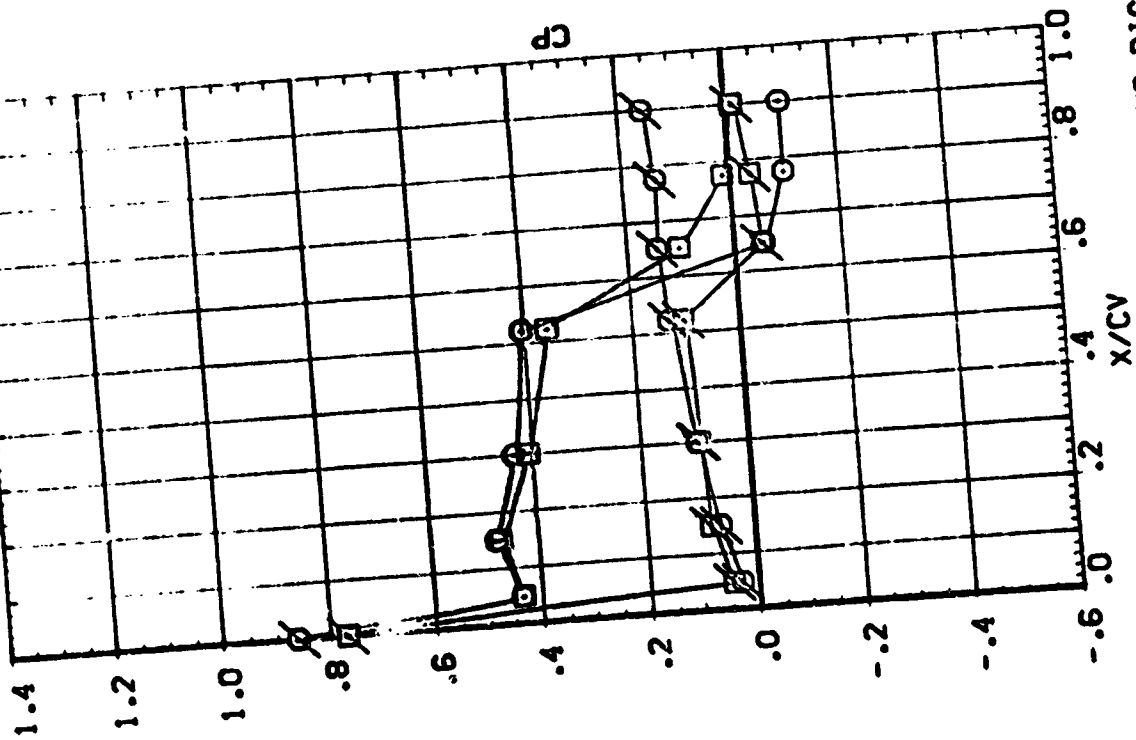
SYMBOL: 7/3
 BETA: 2.498
 WAC: 2.498
 .58
 .316
 .600

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RWD): OPEN ASES 87-707 (AS 02A + S3 + 19 LEFT VERTICAL
 (RWD): FLASSED ASES 87-707 (AS 02A + S3 + 19 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

	SYMBOL	CONFIGURATION DESCRIPTION	
CPA SET	SY800	AES 87-707 : A9 C2A + S3 + -9 LEFT VERTICAL	-9 RIGHT VERTICAL
PSNA :	OPEN	AES 87-707 : A9 C2A + S3 + -9 LEFT VERTICAL	-9 RIGHT VERTICAL
PSNA :	CLOSED	AES 87-707 : A9 C2A + S3 + -9 LEFT VERTICAL	-9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

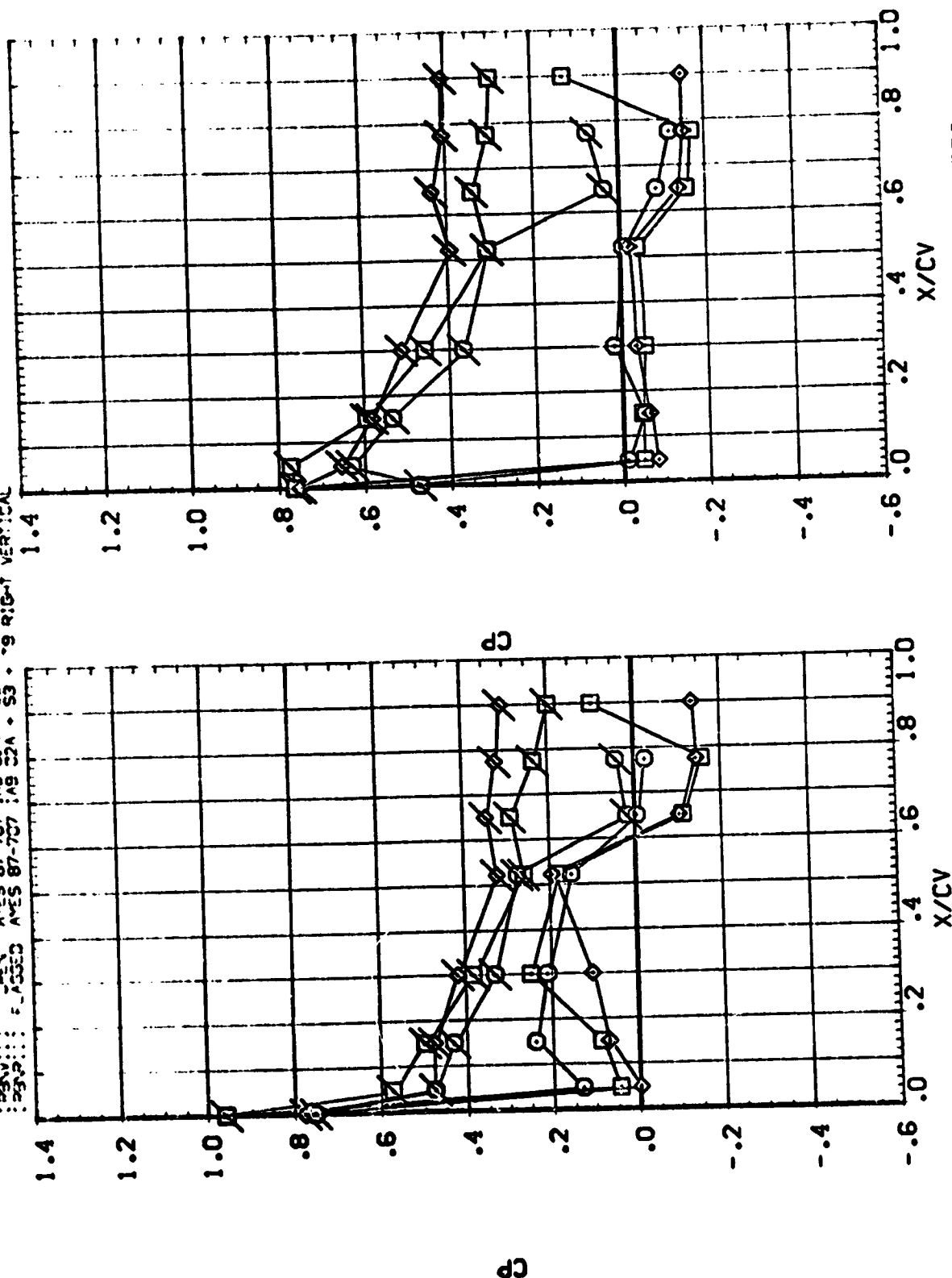
PARAME:2:2:1-1-25

ALPHAT
RJOJER
RJOJLR

Symbol	BEVA	WZ	WZ
5000	4.33C	1.50	2.498
1000	0.600	3.6	
500		6.00	

Symbol	BEVA	WZ	WZ
5000	4.33C	1.50	2.498
1000	0.600	3.6	
500		6.00	

DATA SET	SWOZ	CONFIGURATION	DESCRIPTION
0001	OPEN	AGES 87-707	AGES 32A + 53 - '9 LEFT VERTICAL
0002	UNASSD	AGES 87-707	AGES 32A + 53 - '9 RIGHT VERTICAL

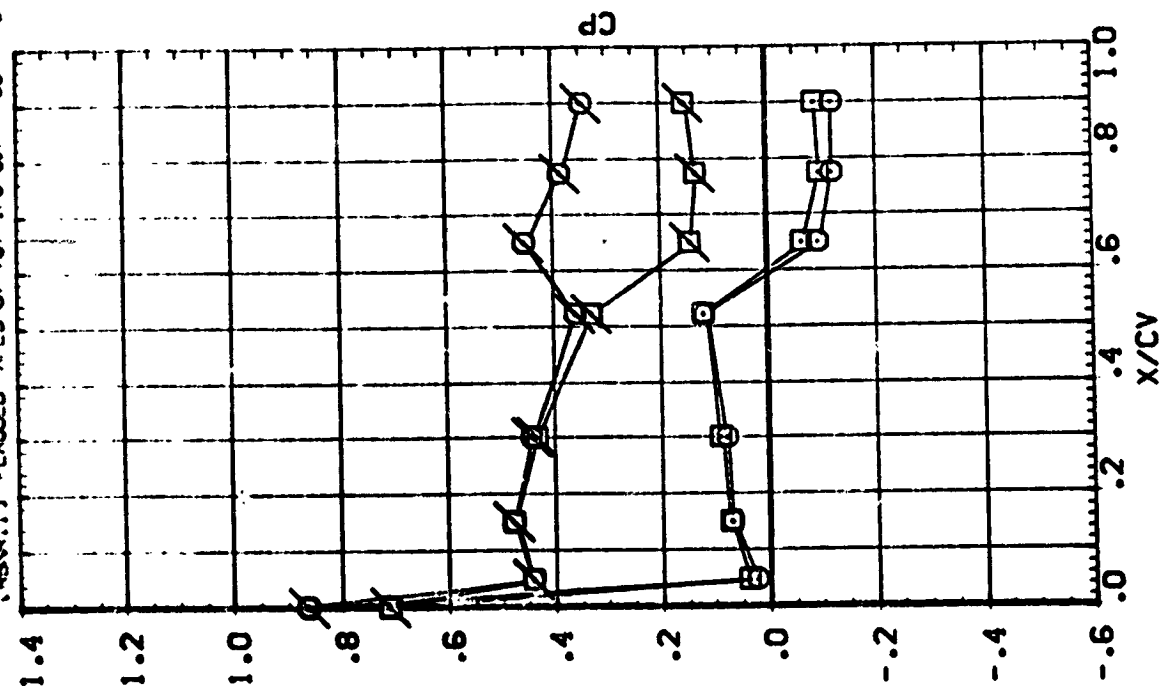
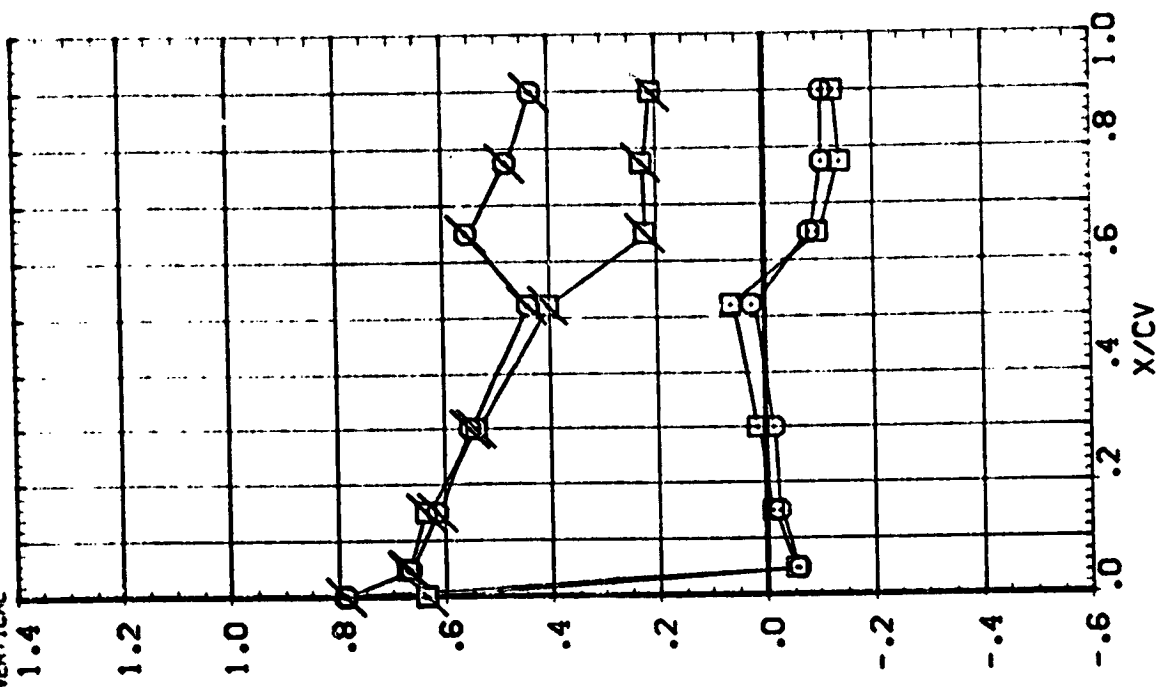


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES
 ALPHA -8.000 59812
 RUDER -15.000 ELEVON .000
 RUDER .000

S.W.C. 7/EN .84C .975
 BETA 4.33C 8.6CC
 WAC 2.498

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (REV1) OPEN AXES 87-707 :A9 32A - S3 : 19 LEFT VERTICAL
 (REV2) FLAGGED AXES 87-707 :A9 32A - S3 : 19 RIGHT VERTICAL



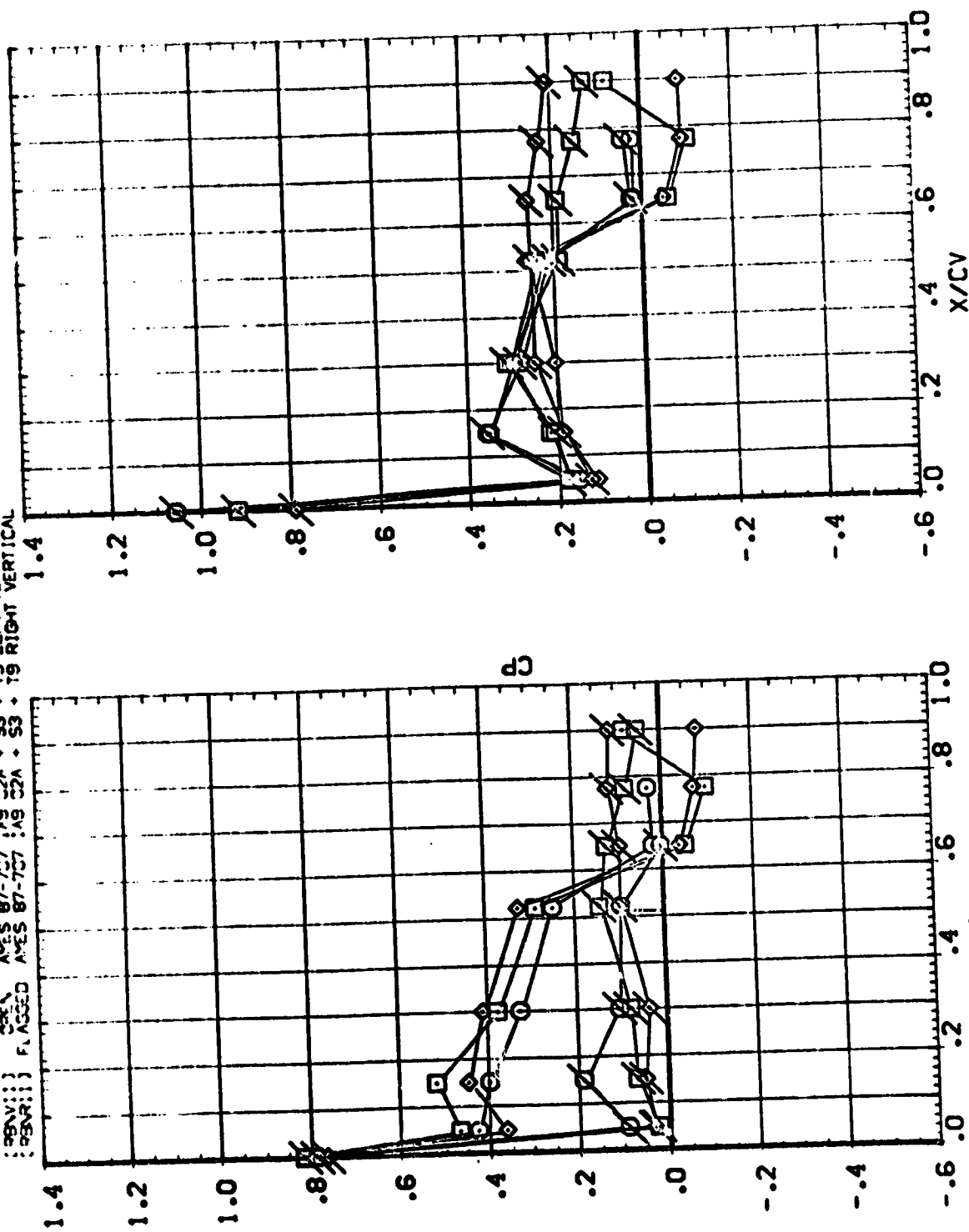
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYNOPSIS Z/BV
 .158
 .316
 .600

BETA' MAC
 -4.260 2.999
 .050

PARAMETRIC VALUES
 ALPHA' -8.000
 R/CORR -15.000
 R/CFLP .000
 PROBING ELEVON .500
 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 :RBNV::: OPEN AXES 87-757 :A9 C2A : S3 : T9 LEFT VERTICAL
 :RBNR::: FLASSED AXES 87-757 :A9 C2A : S3 : T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

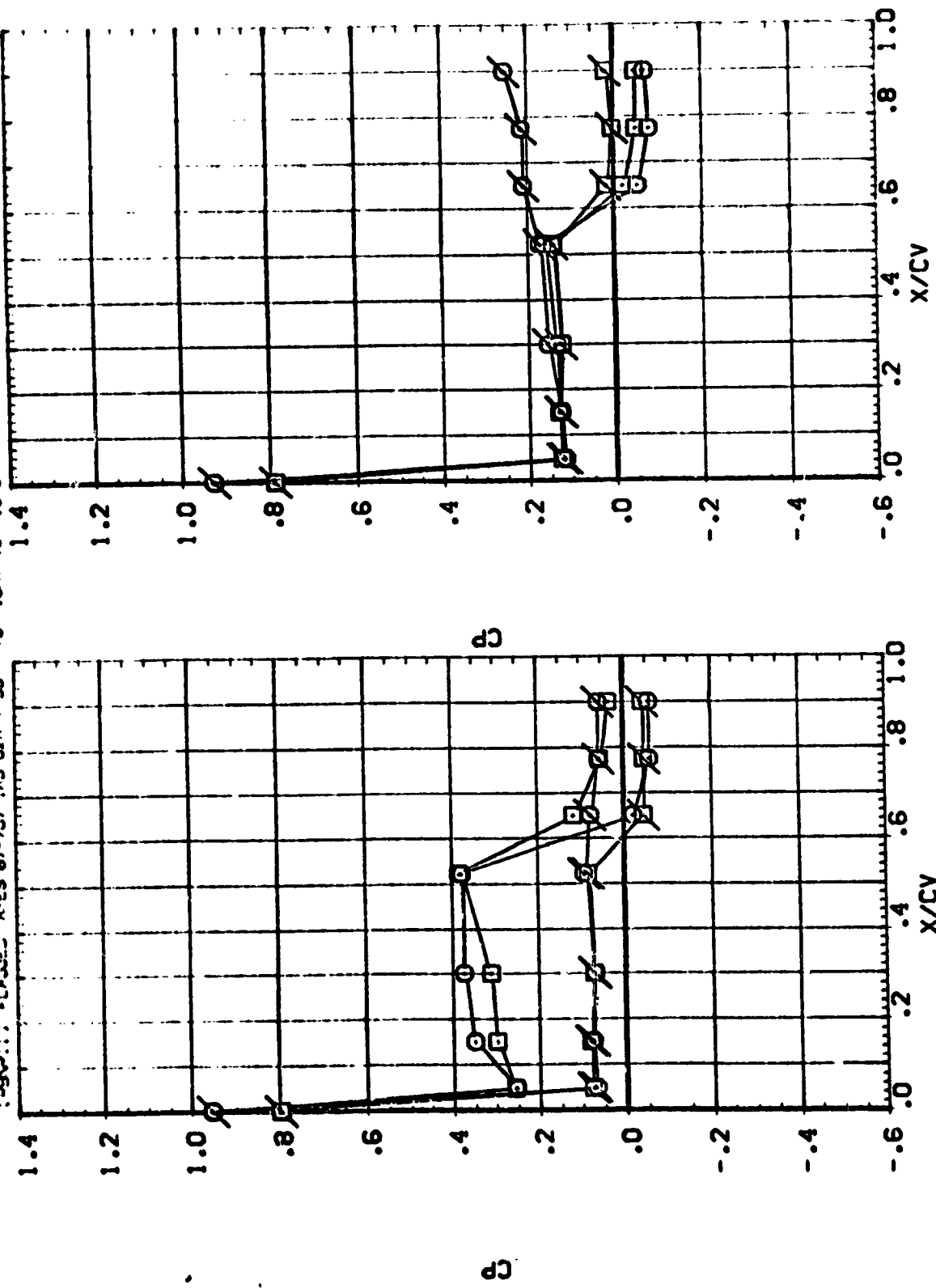
PARAM: R: 14.25
 -8.000 293.14
 -15.000 6.515

ALPHAT
 R: 0.000
 R: 0.000

SYMC: 2/3/1
 .840
 .975

SE: A: "AC"
 -4.260 2.999
 .250

DATA SET: SYMBOL CONFIGURATION DESCRIPTION
 : OPEN : ASES 87-707 : A9 C2A : S3 : T9 LEFT VERTICAL
 : FLAGGED : ASES 87-707 : A9 C2A : S3 : T9 RIGHT VERTICAL



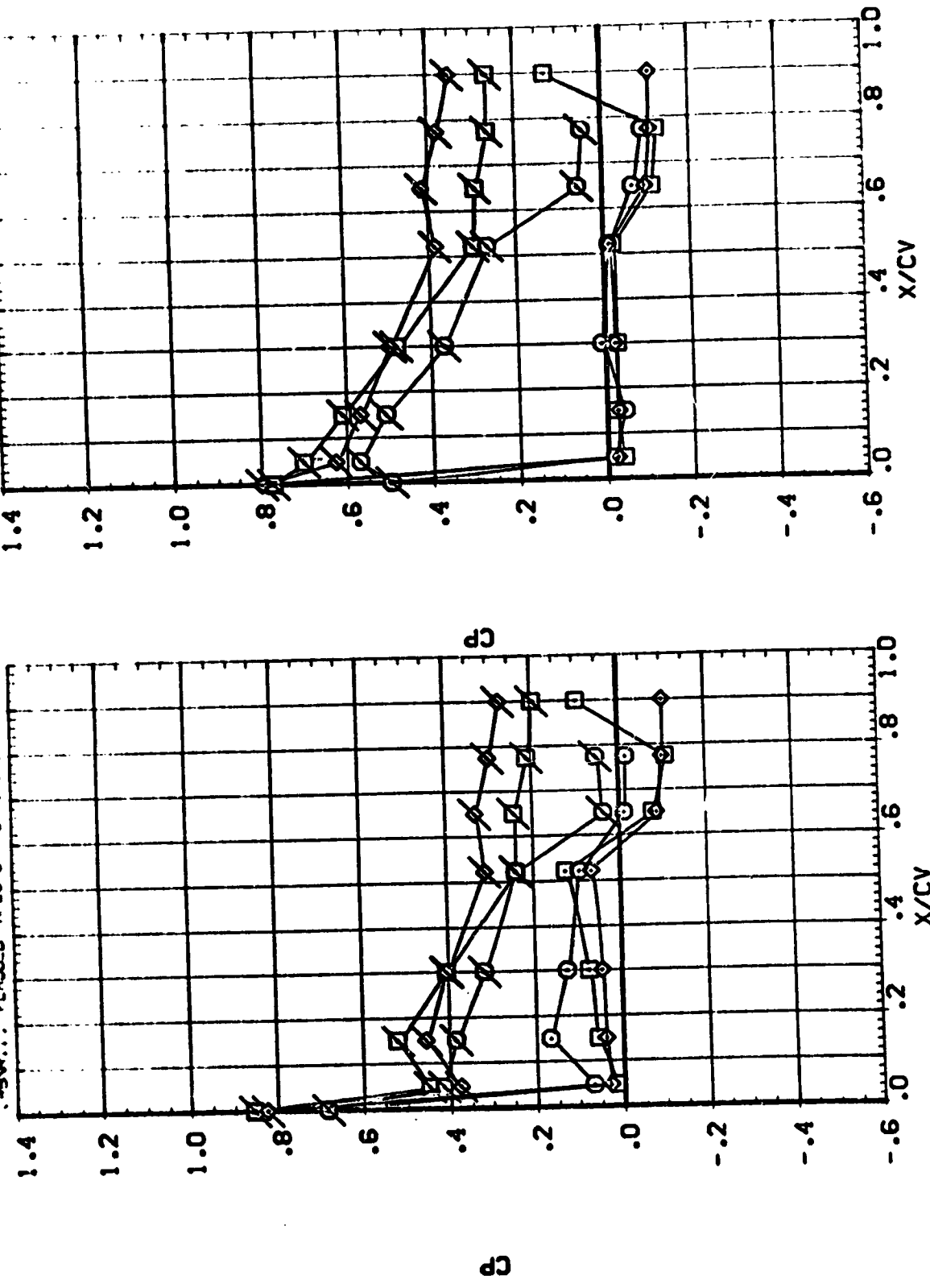
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

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PARAMETER VALUES
 ALPHA 0.000 59.1°
 BETA 0.000 0.0°
 ROL 0.000 0.0°

SYMBOL Z/B/ BETA/ MACH
 0.158 4.400 2.999
 0.316 8.750
 0.632

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 : 87-707 : 19 : 19 LEFT VERTICAL
 : 87-707 : 19 : 19 RIGHT VERTICAL

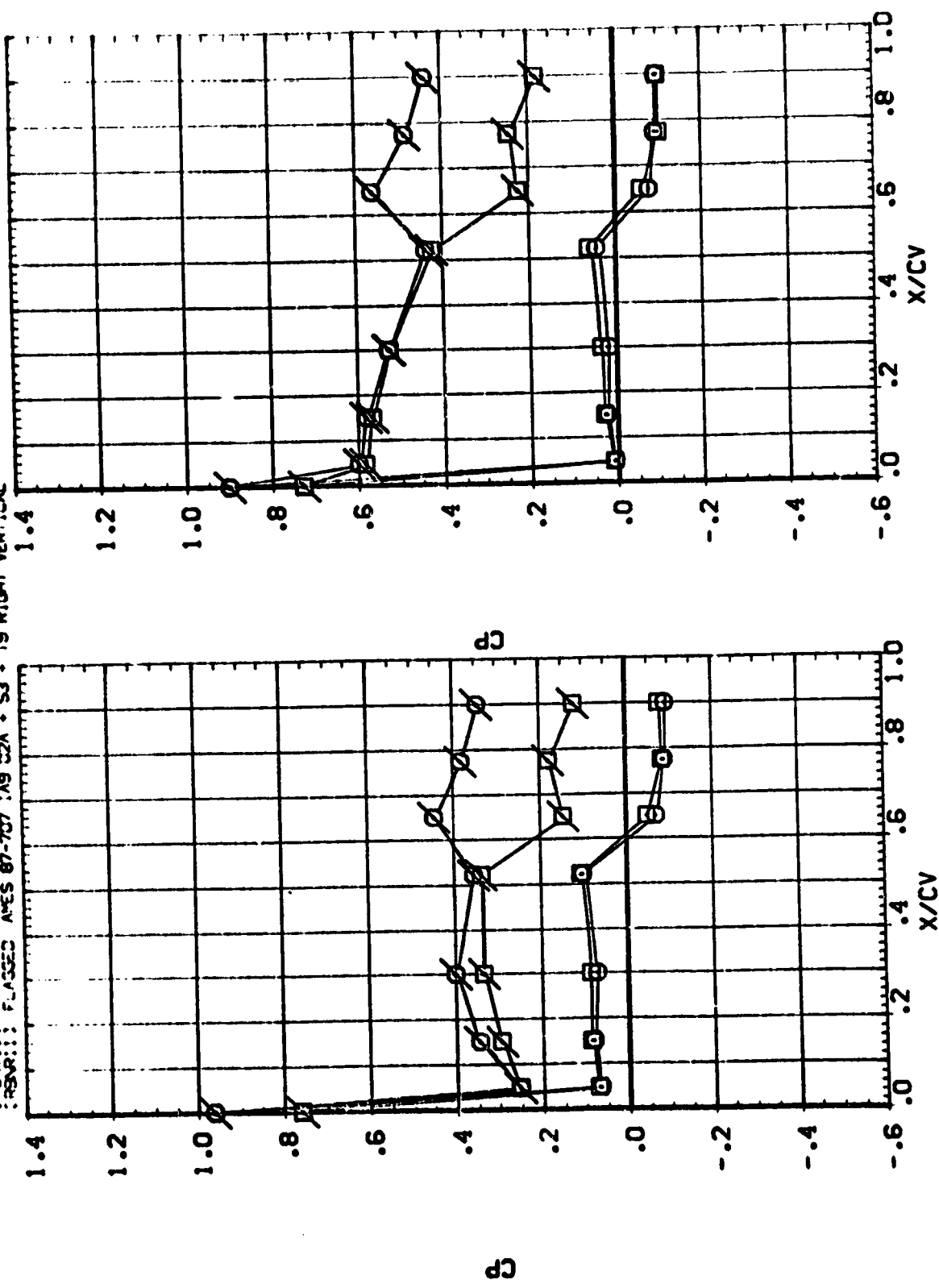


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES
 ALPHA1 -8.000
 RUDDER -15.000
 RUOFLR .000

SYSC Z/BV BE-A AC-
 .040 4.400 2.999
 .975 8.750

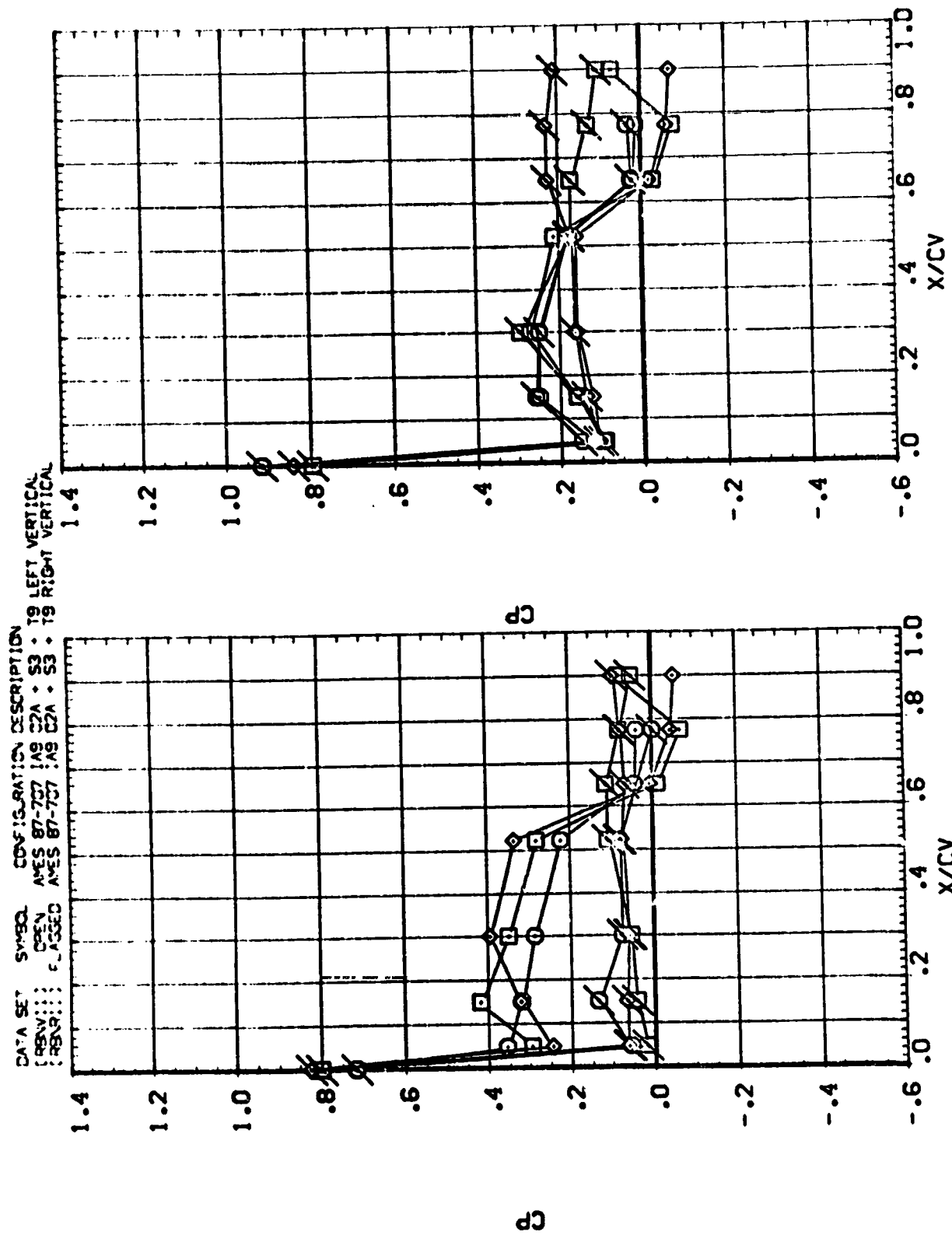
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 :RBNV111 OPEN AYES 87-707 :A9 C2A + S3 + T9 LEFT VERTICAL
 :RBNV111 FLASSED AYES 87-707 :A9 C2A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES
 ALPHA: -8.000
 RUDER -15.000
 RUDER ELEVON .000

SYMBOL Z/BV BE/A MAC
 .158 -4.33C 3.502
 .316 .05C
 .600



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

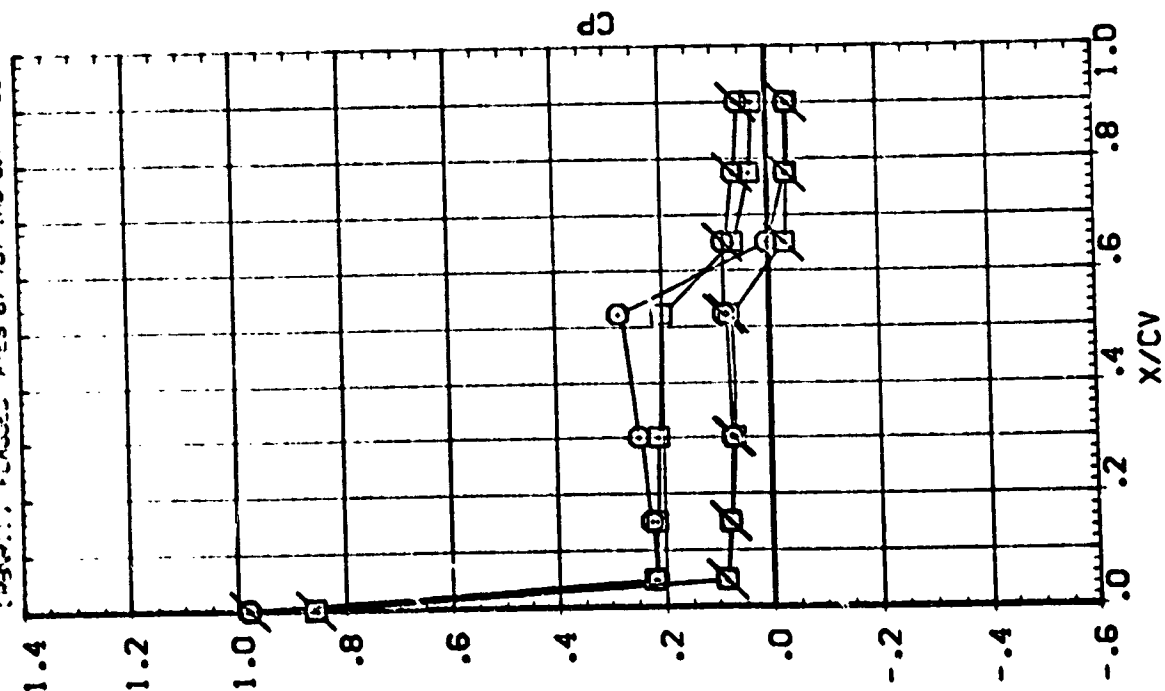
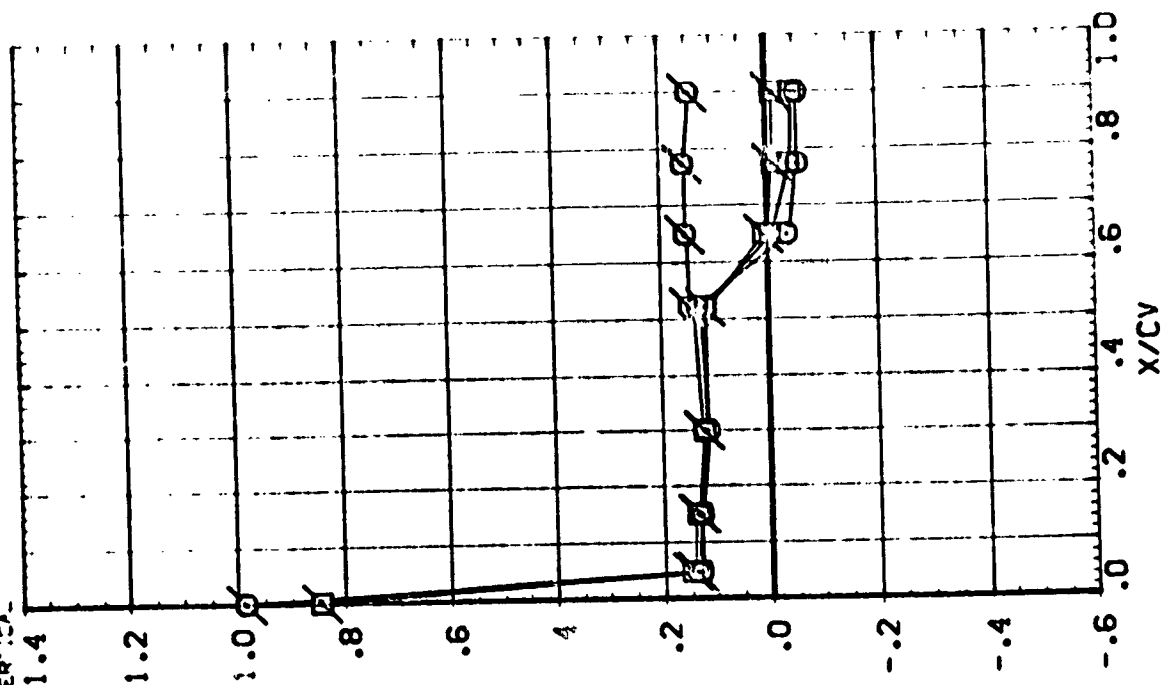
PARAMETRIC VALUES

ALPHA	-8.000	999.0
BETA	-15.000	1000
CL	1.000	

SYMBOLS

W/C	3.502
BE	-4.330
W/C	1.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 : 87-707 : AG CDA : S3 : 19 LEFT VERTICAL
 : 87-707 : AG CDA : S3 : 19 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

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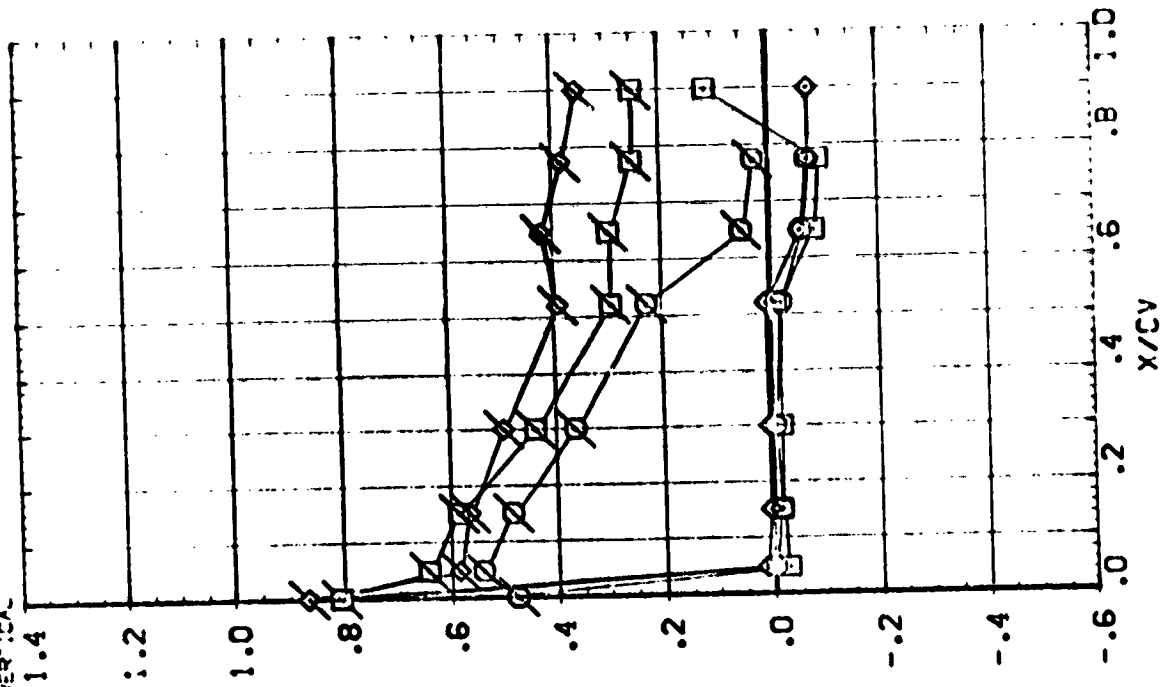
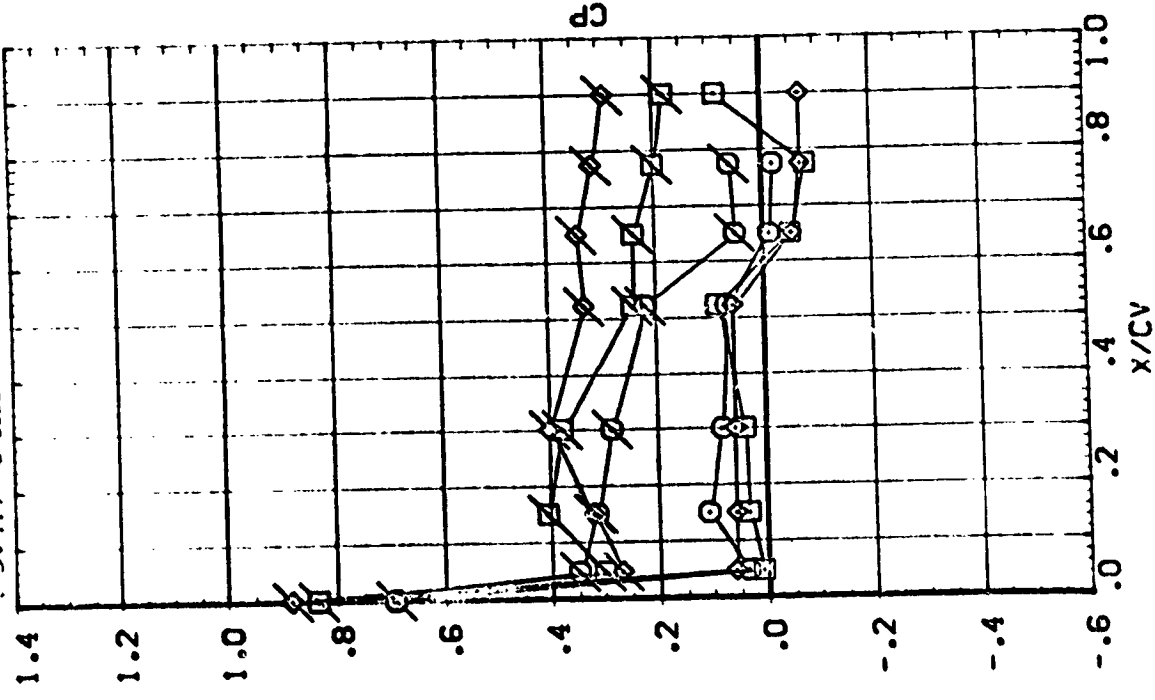
SYMBOL 2/3: .58
 .316
 .500

BEAT 4.470
 8.900

WAC 3.502

PARAMETER VALUES
 A.2047
 P.0000
 P.0000
 P.0000
 P.0000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (P33) OPEN ASES 87-707 :A9 C2A : S3 : 9 LEFT VERTICAL
 (P33) FLASSED ASES 87-707 :A9 C2A : S3 : 9 RIGHT VERTICAL

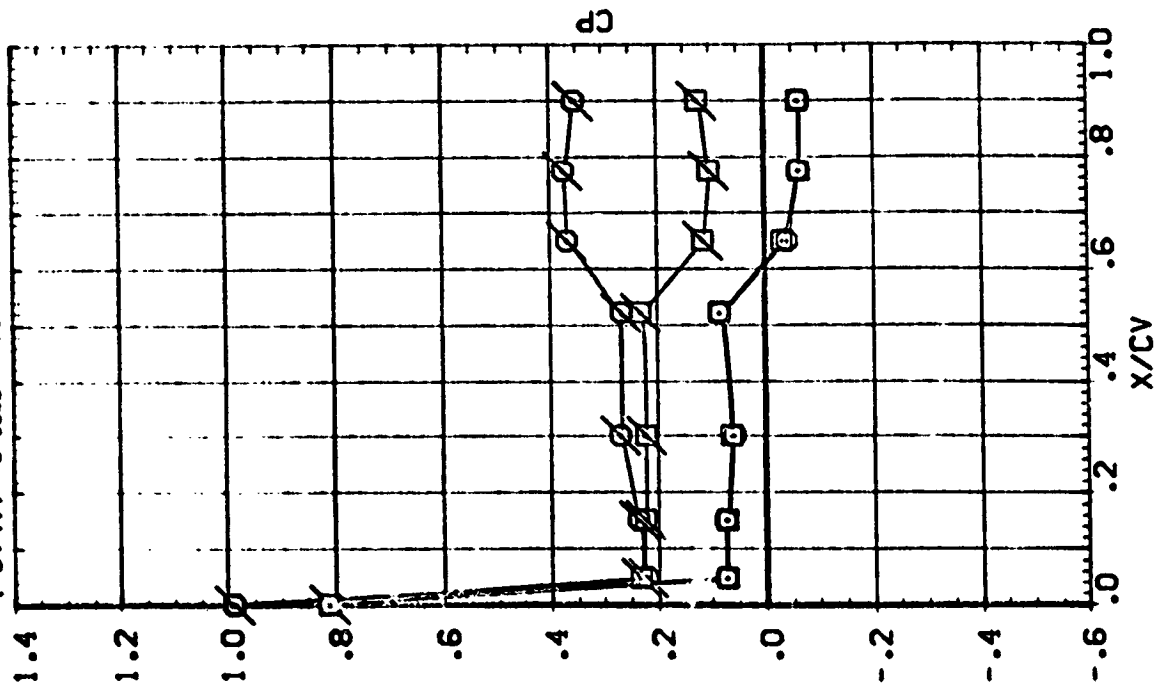


CLOCKWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYNCH 2/3. 3E" 4.47C 3.502
 .84C 4.47C 3.502
 .975 8.900

PARAMETRIC VALUES
 ALPHAT -8.000 599.1C
 RUDDER -15.000 5.15C
 RASLR .000

DATA SET SYNCH CONFIGURATION DESCRIPTION
 :R9V1111 OPEN AVES 87-707 :A9 32A : S3 : 19 LEFT VERTICAL
 :R9V2111 FLASSED AVES 87-707 :A9 32A : S3 : 19 RIGHT VERTICAL



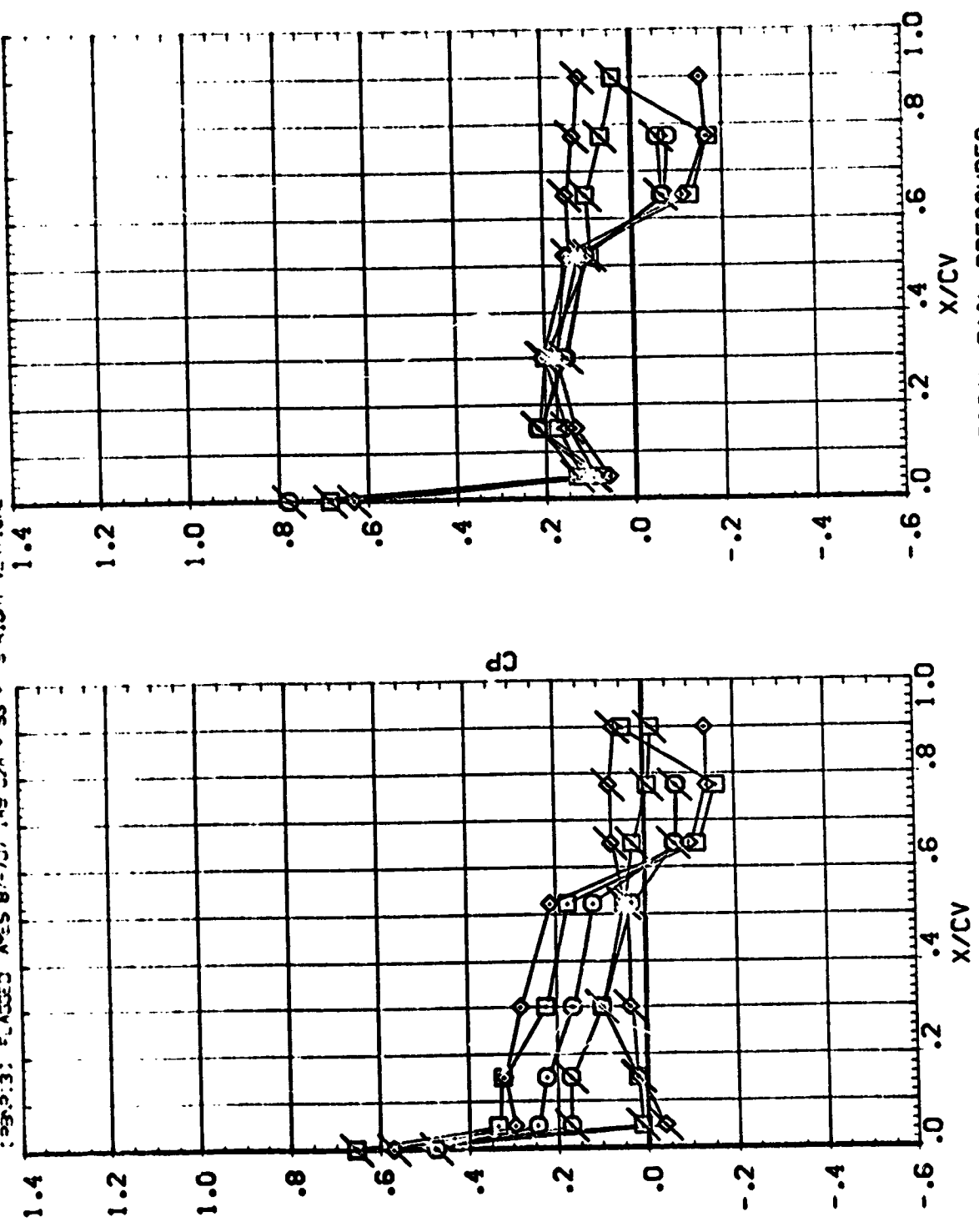
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

ALPHAT	.000	299.14	.500
RUDDER	-15.000	ELEVON	.000
RUDSLR	.000		

DATA SET: SYMBO: CONFIGURATION DESCRIPTION

889.13:	OPEN	AVES 87-707	AG C2A	S3	19 LEFT VERTICAL
889.13:	FLAPPED	AVES 87-707	AG C2A	S3	19 RIGHT VERTICAL

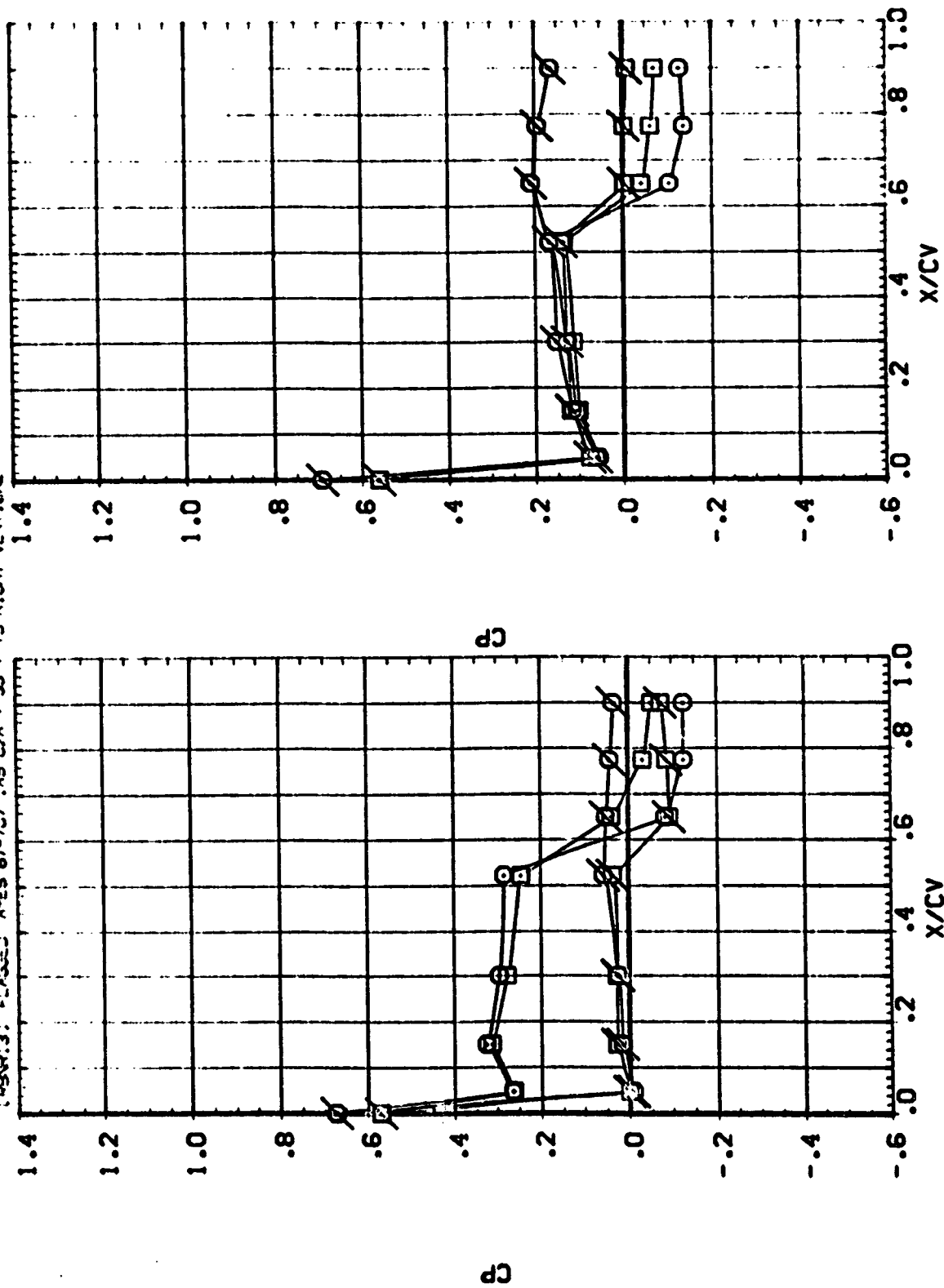


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES
 ALPHAT .000 999.1C
 RUDER -15.000 ELEVON
 RUDLR .000

SYMBOL 7/3. 3E-11 WAC-
 .04C -4.18C 2.498
 .975 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 :PSA1:3 OPEN AVES 87-707 :AS C2A + S3 + T9 LEFT VERTICAL
 :PSA2:3 FLAGGED AVES 87-707 :AS C2A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYNOPSIS: 2/31
 1.58
 3.5
 1.600

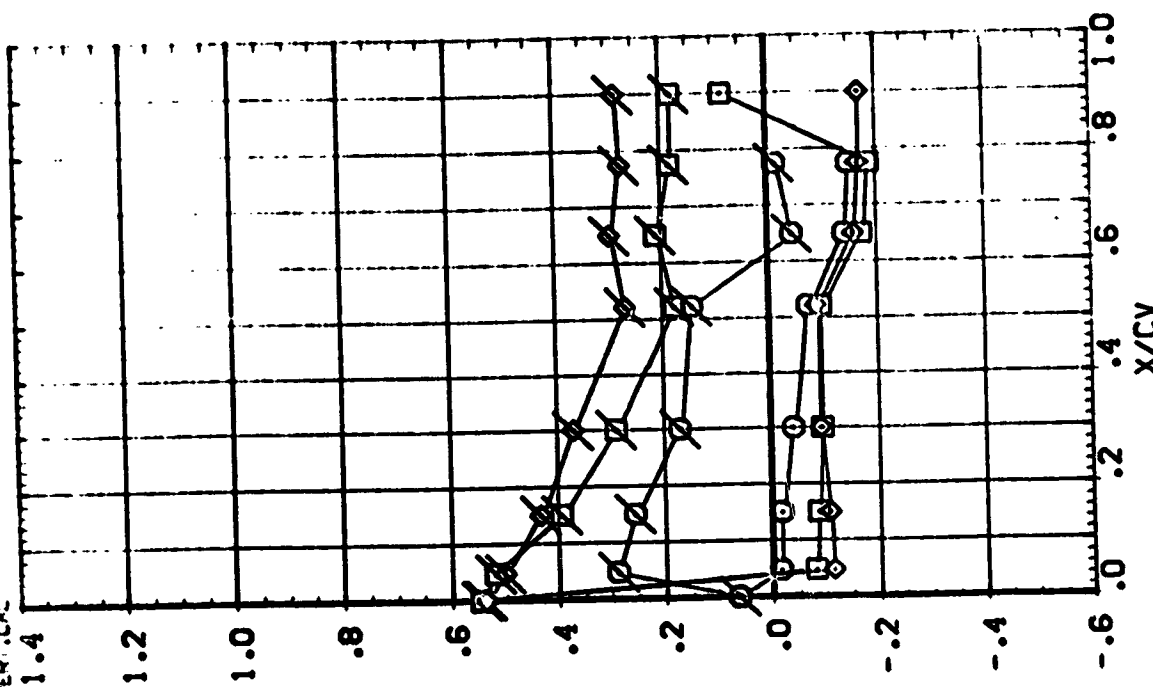
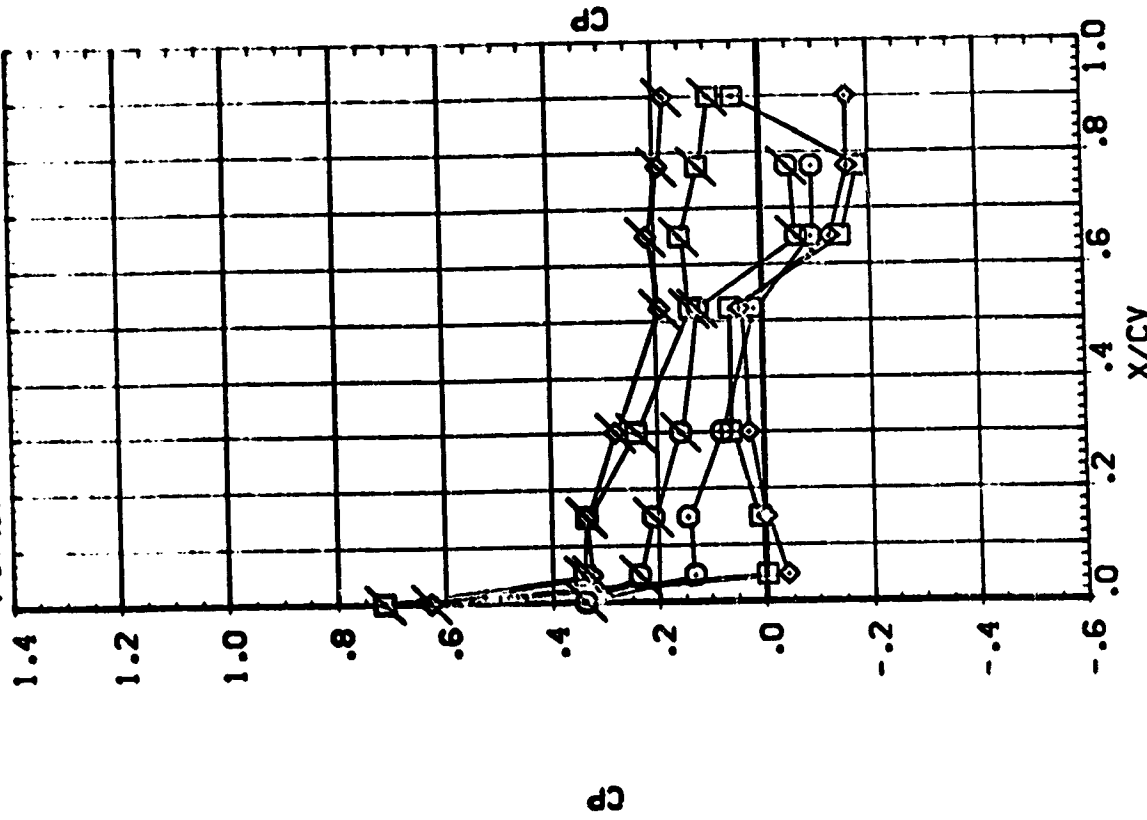
BETA: 4.300
 0.540

MACH: 2.498

ALPHA: 0.000
 RUDER: 0.000
 RUDER: 0.000

ORANGE: 2.000
 0.000
 0.000
 0.000

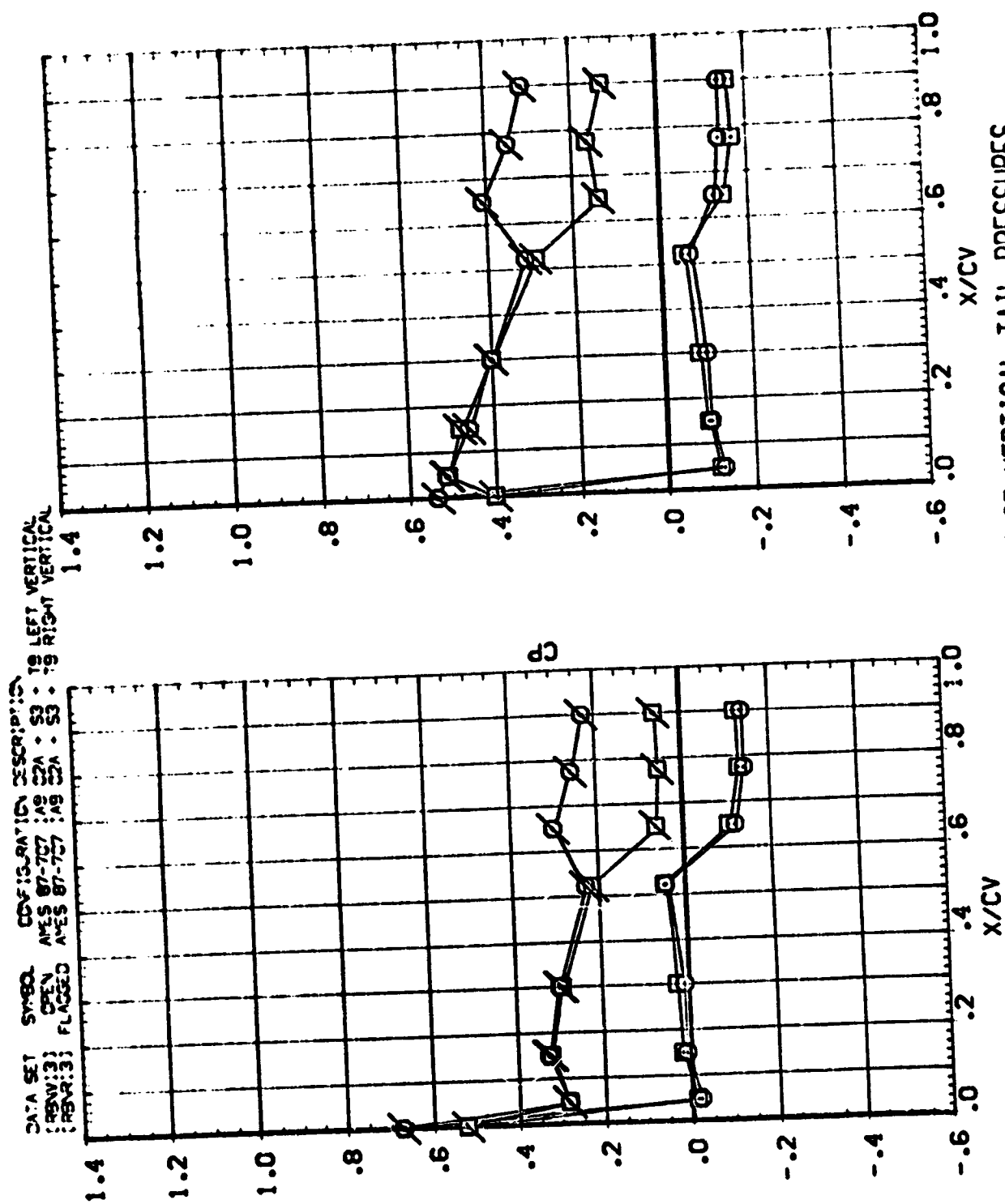
DATA SET: SYMBO
 CONFIGURATION DESCRIPTION
 : 08N1:3 : OPEN ASES 87-707 : AS C2A : S3 : -19 LEFT VERTICAL
 : 08N2:3 : FLASSED ASES 87-707 : AS C2A : S3 : -19 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

ALPHA	.000	299.1°C	.500
RUDDER	-.15.000	ELEVON	.000
RUD_R	.000		



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RNV:3) OPEN AVE 87-757 :A9 CDA : S3 : 18 LEFT VERTICAL
 (RNV:3) FLAGGED AVE 87-757 :A9 CDA : S3 : 19 RIGHT VERTICAL

SYMBOL Z/B: .84C 7.498
 .925 8.54C

PARAMETRIC VALUES

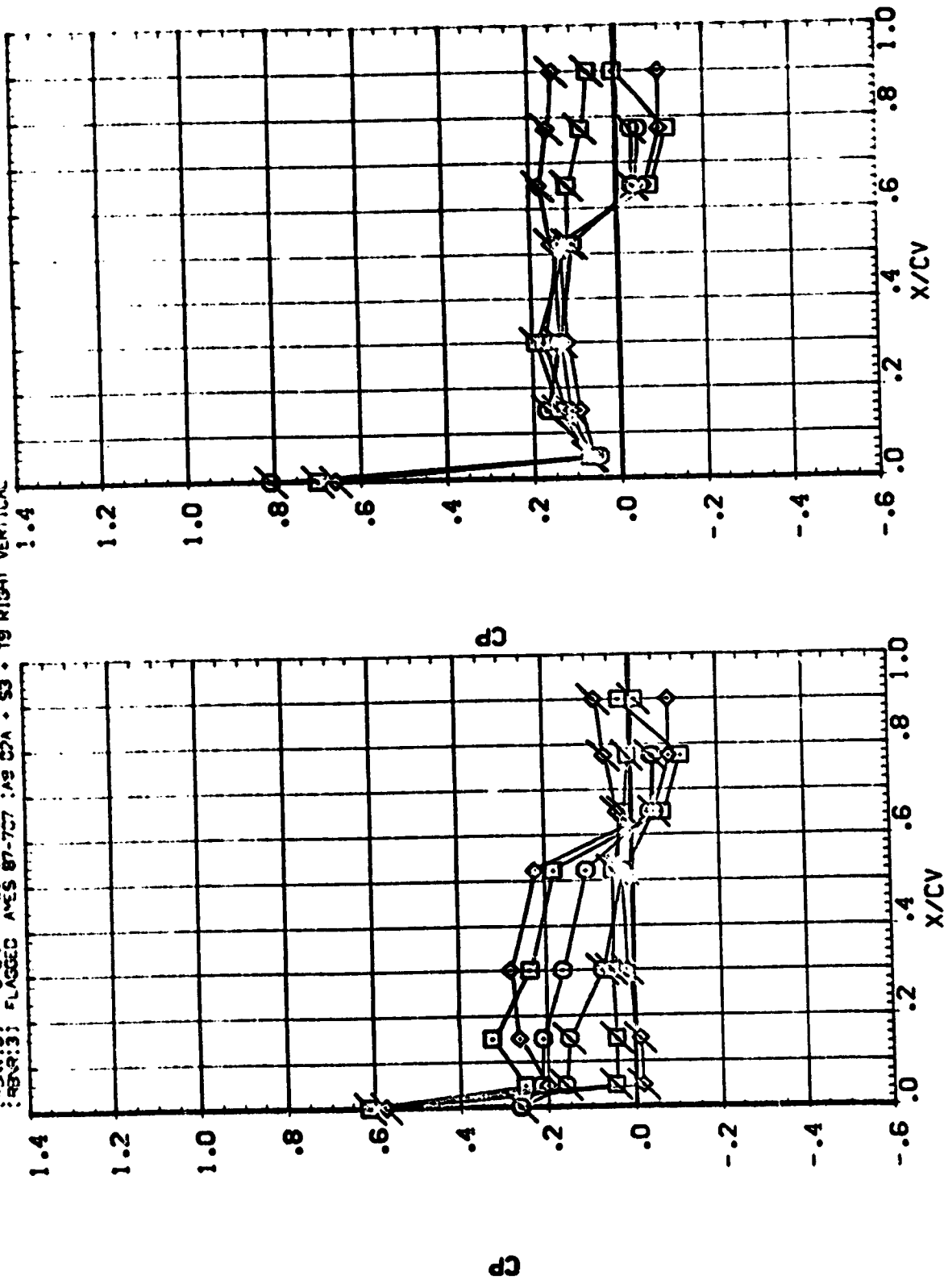
ALPHA	.000	ORIGIN	.000
RCDSP	-15.000	ELEV	.000
RCDR	.000		

SYMBOL Z/BV BETA WACH

SYMBOL	Z/BV	BETA	WACH
○	.58	-4.760	2.999
◇	.316	.060	
◇	.600		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

REVR13	OPEN	ANES 87-757	AS 53A	S3	19 LEFT VERTICAL
REVR13	FLAGGED	ANES 87-757	AS 53A	S3	19 RIGHT VERTICAL

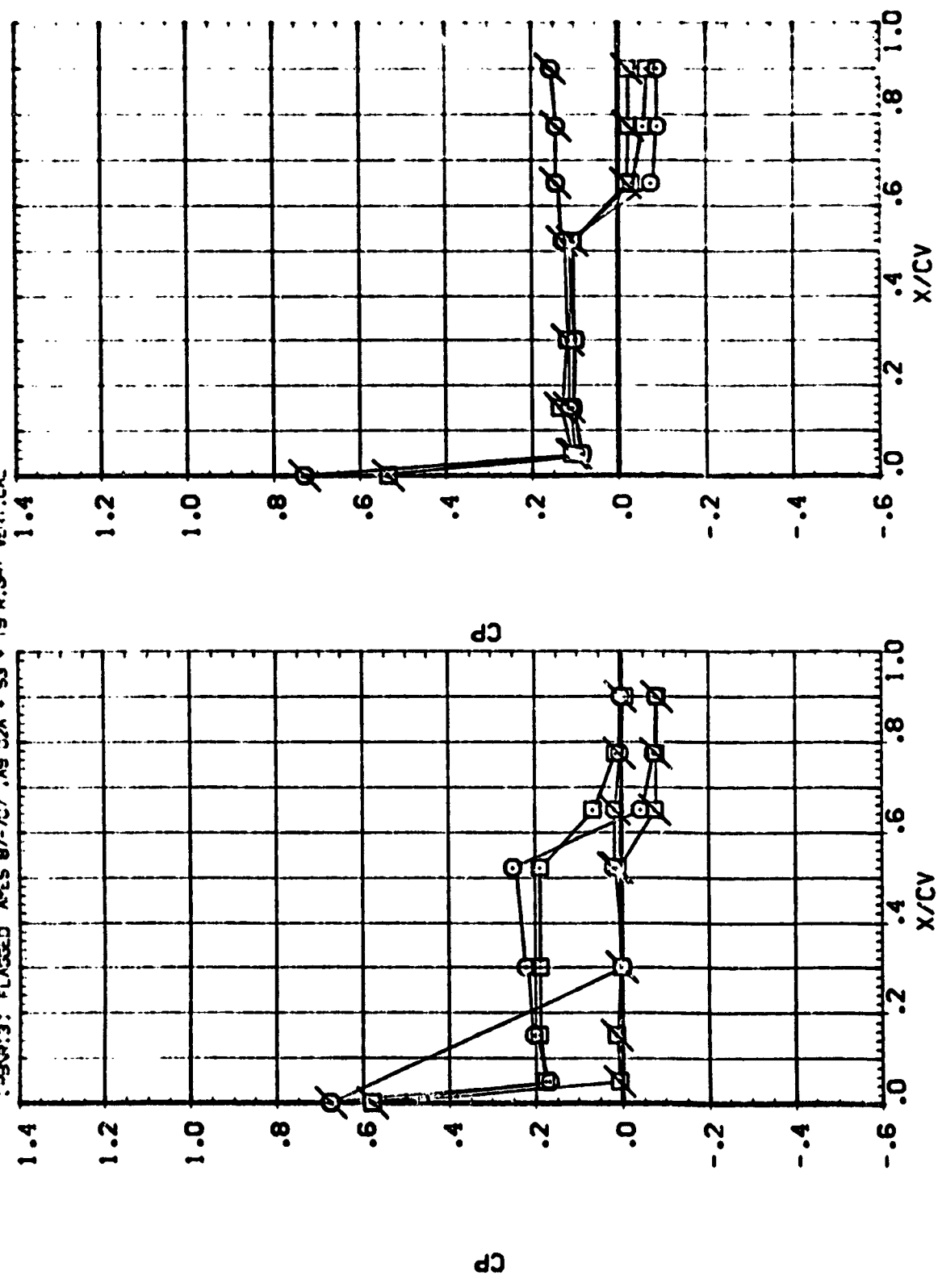


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL Z/B. BE/A. MACH
 .84C -4.260 2.999
 .975 .580

PARAMETRIC VALUES
 ALPHA .000 999.0
 RPODER -15.000 ELEVON
 RPOFLR .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 :PSN:3: OPEN ANES 87-707 :A9 C2A : S3 : 19 LEFT VERTICAL
 :PSN:3: FLAGGED ANES 87-707 :A9 C2A : S3 : 19 RIGHT VERTICAL



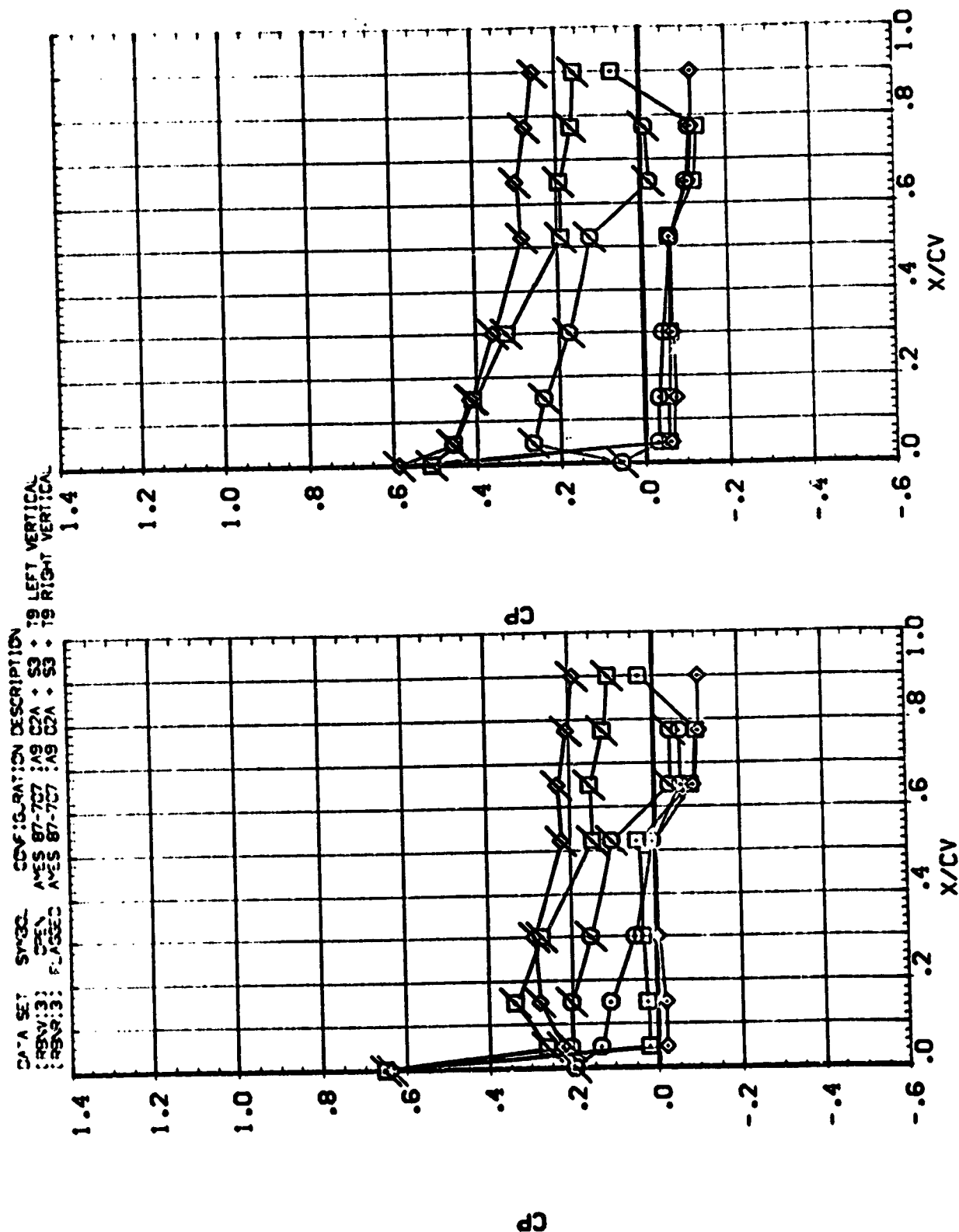
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

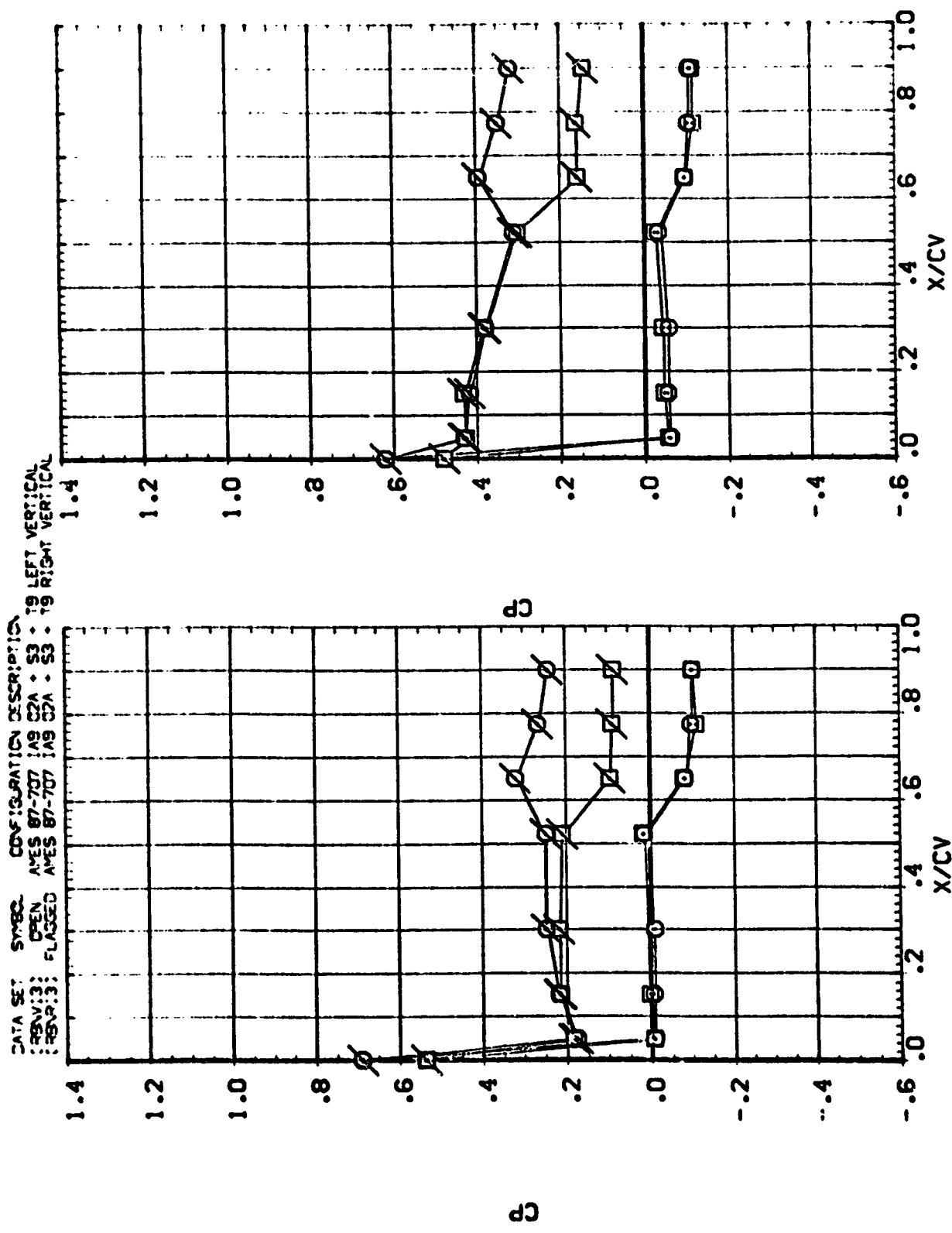
ALPHAT	.000	99815	.000
RUDER	-15.000	ELEVON	.000
RUDFLR	.000		

SYMBOL Z/B₀ BETAT MAC

0.158	4.380	2.998
0.316	8.680	
0.600		



SYMBOL 7/3/ 84C 975
 3E" 4.38C 8.68C
 WACH 2.589
 PARAMETRIC VALUES
 ALPHAT .000 993.5
 RLODER -15.000 ELEVON
 RLOFLR .000



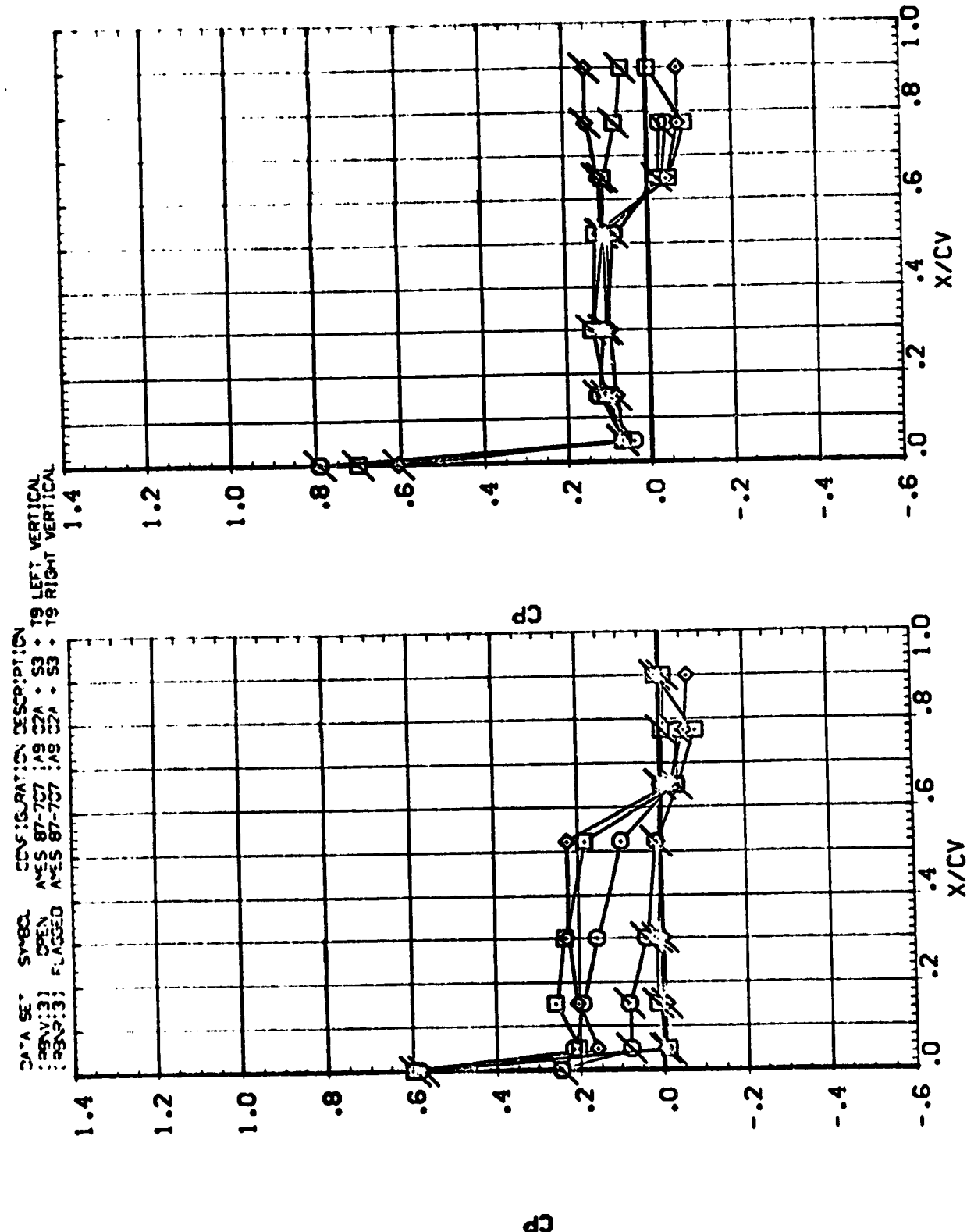
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

ALPHAT	.000	0.000
RUDER	-15.000	ELEVON
RUDFLR	.000	

SYMBOL

Z/B	BEAT	MACH
.158	-4.350	3.500
.315	.050	
.600		

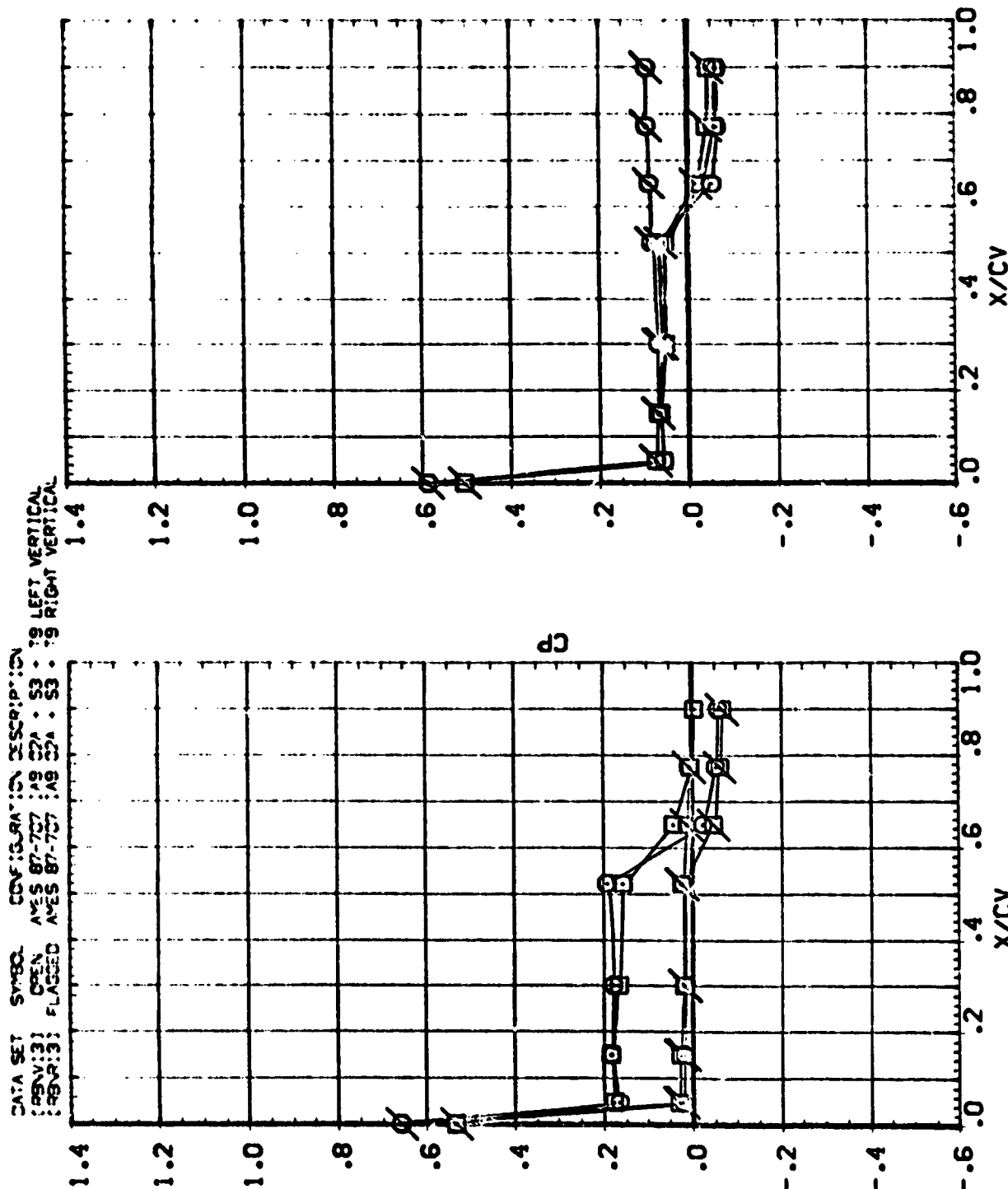


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL 7/3: .84C .925 BETA: -4.35C .050 MAC: 3.502

PARAMETRIC VALUES

PARAMETER	VALUE
ALPHA	.000
ROD	.000
ROD R	.000
ELEV	.000
ROD L	.000

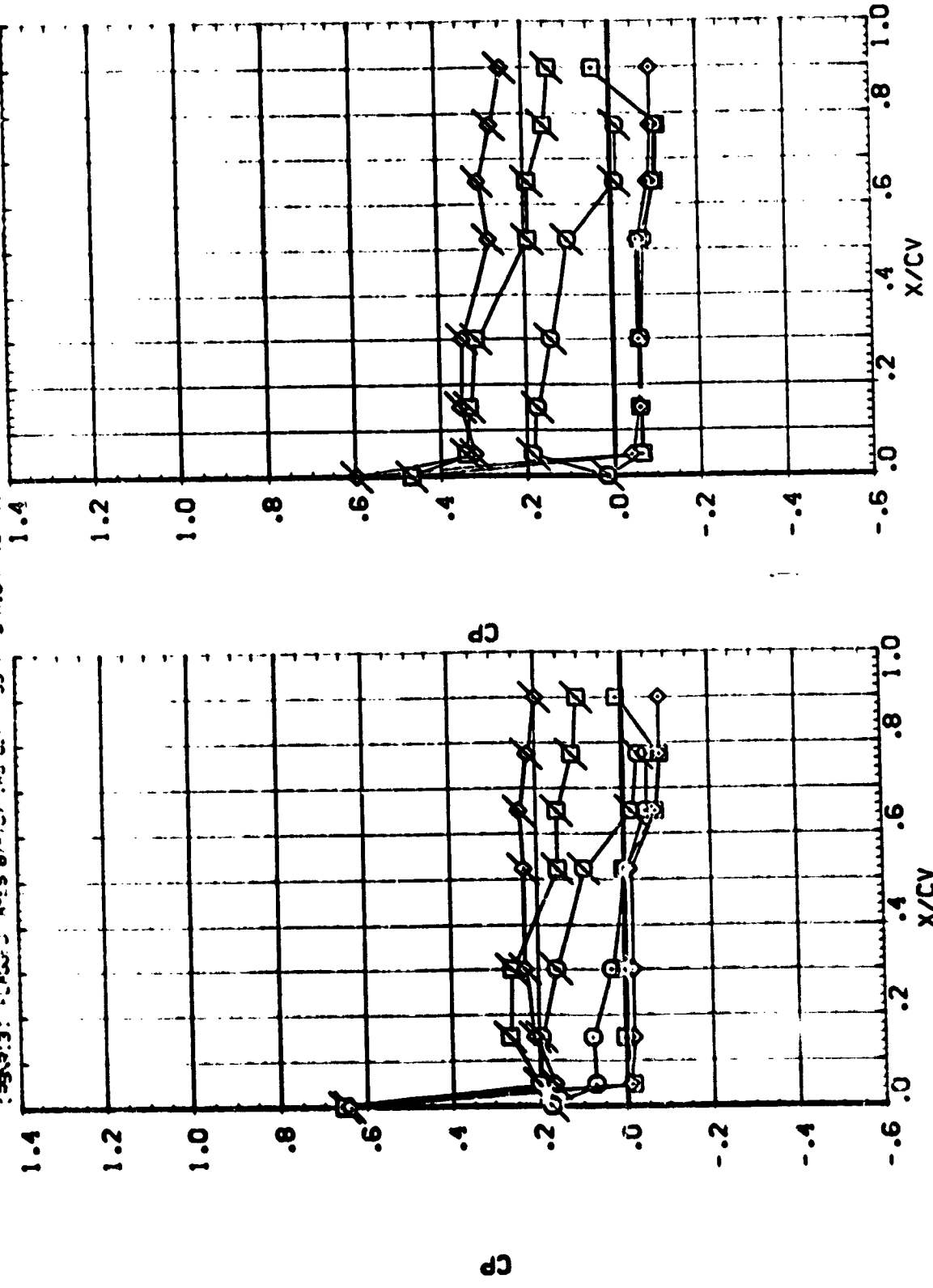


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETER VALUES
 ALPHA: .000 999.5 .500
 RUDDER -15.000 0.000 .500
 ROLLER 1.000

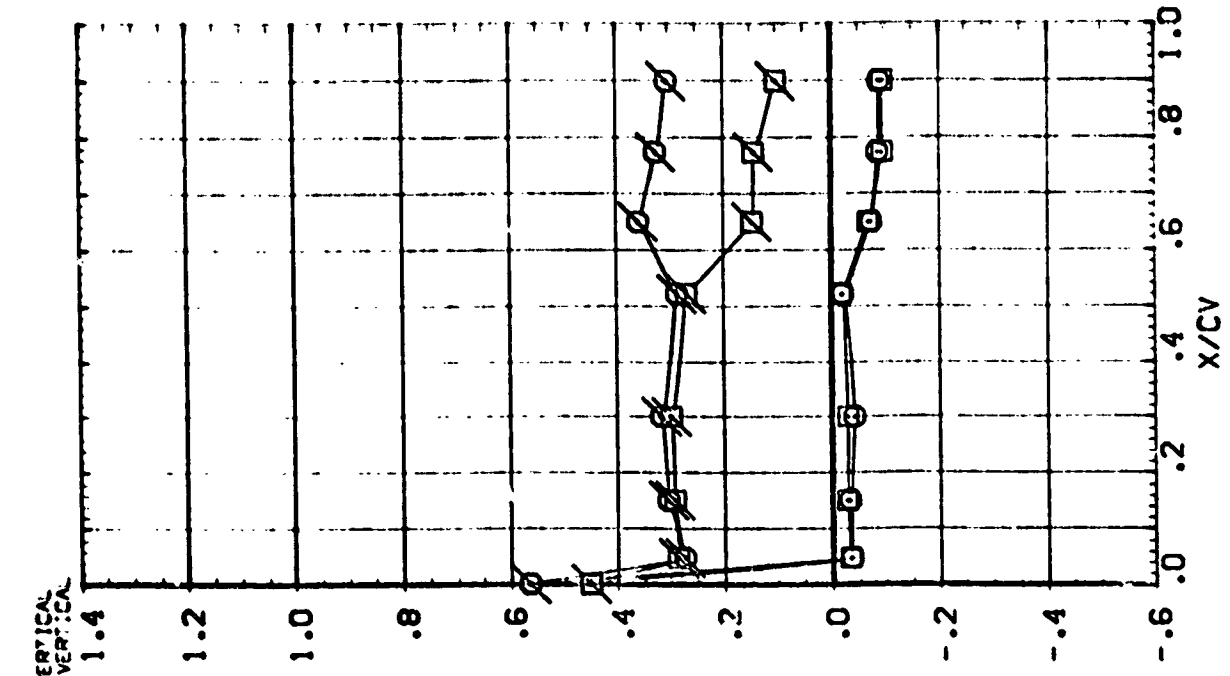
SYMBOL Z/B. SEAT WACW
 .50 4.450 3.507
 .316 0.940
 .500

DATA SET: SYMBO CONF: SURFACE DESCRIPTION
 : P8V13: C00N ASES 87-707 : A8 C2A : S3 : '9 LEFT VERTICAL
 : P8V13: F1000 ASES 87-707 : A8 C2A : S3 : '9 RIGHT VERTICAL



PARAMETRIC VALUES

ALPHA	.000	0.000
POSS	-15.000	ELEON
POSS	.000	



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

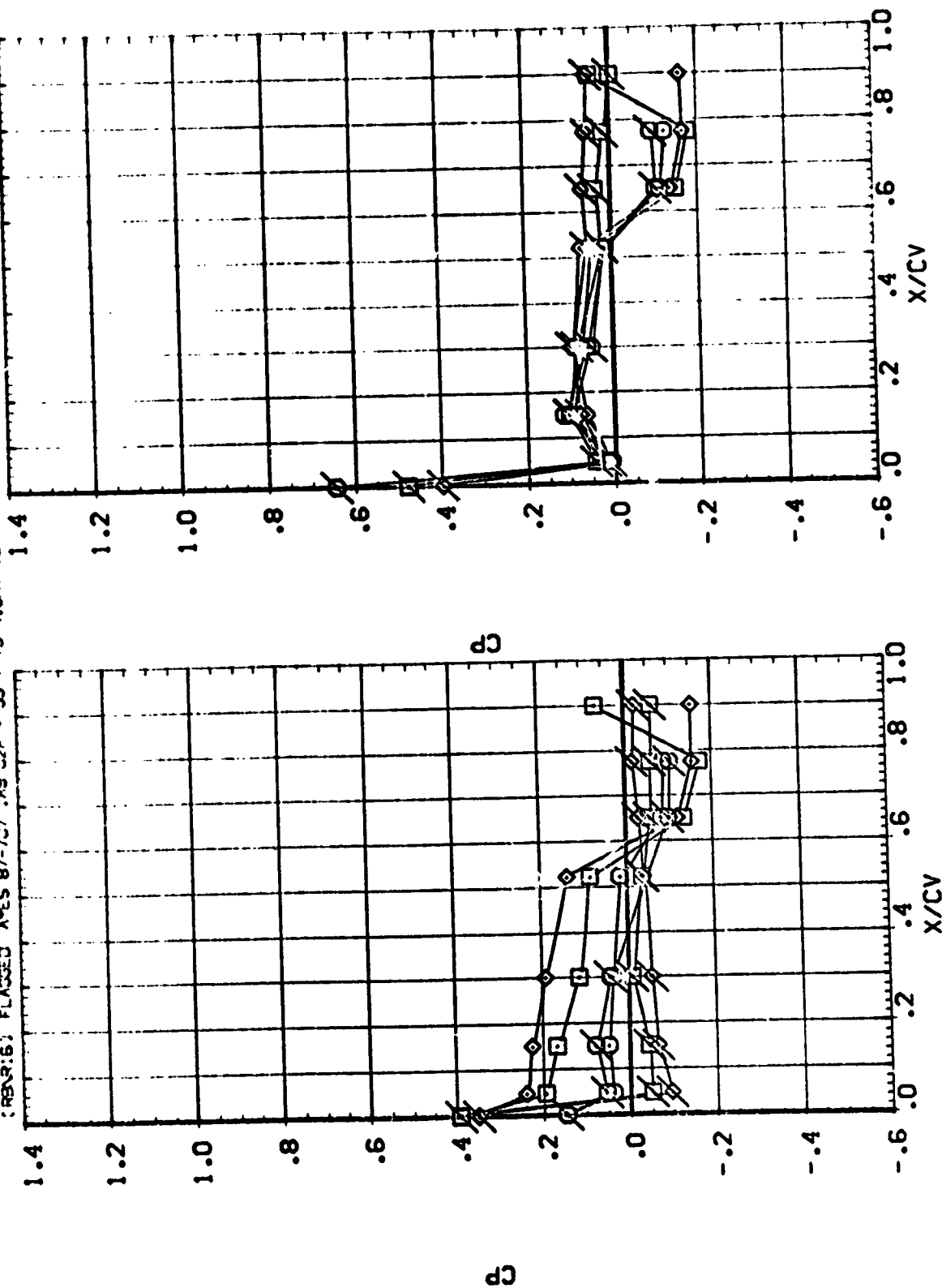
III

SYNCH Z/BV
0.158
0.316
0.600

BETAT MACH
-4.16C 2.498
.060

PARAMETRIC VALUES
ALPHA 8.000 599.1C .500
RUDDER -15.000 ELEVEN .000
RUD. 2 .000

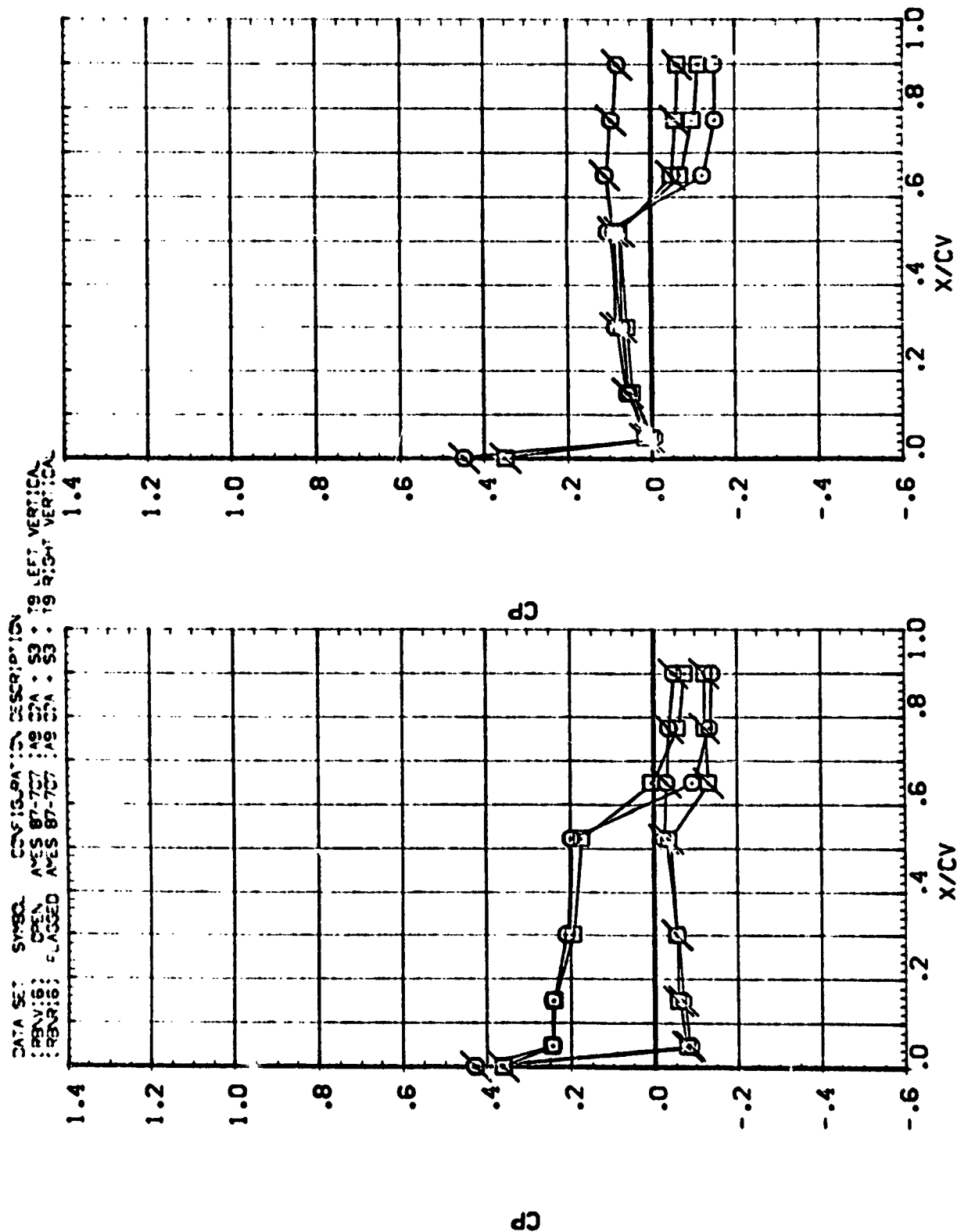
DATA SET SYMBO. CONFIGURATION DESCRIPTION
: REV. 1: 6 : OPEN AYES 87-707 : AS 32A : 53 : TS LEFT VERTICAL
: REV. 1: 6 : FLAGGED AYES 87-707 : AS 32A : 53 : TS RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL 1/3/ 0.84C 0.975 3C/4 4.16C 2.498 0.06C

PARAMETRIC VALUES
 AREA 8.000 399.1C
 RUDER -15.000 ELEVON
 RUDER 0.000



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

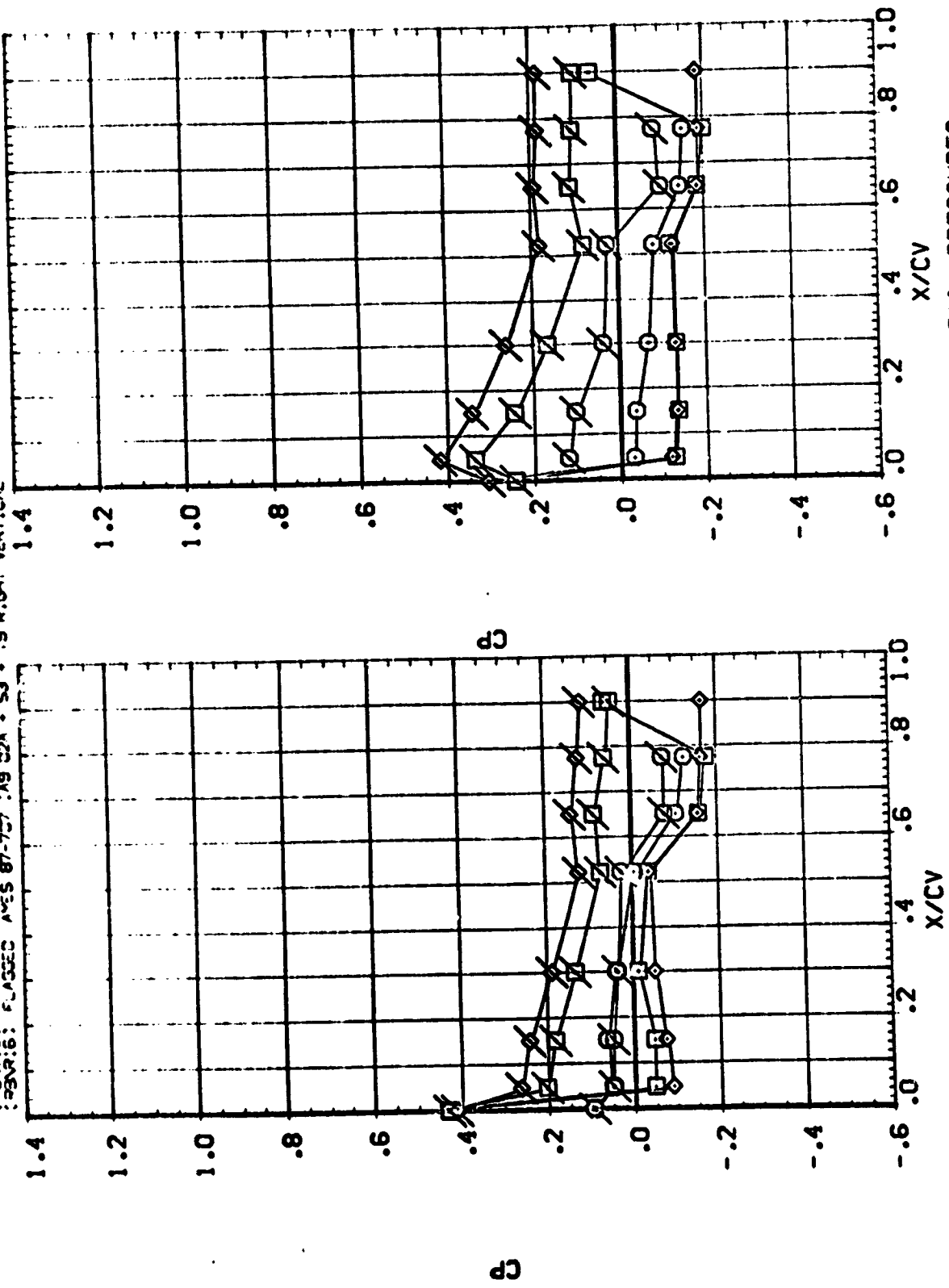
ALPHA	8.000	099.15	.500
RUEER	-15.000	ELEVON	.000
RUEER	.000		

SWBC Z/B

BEA	PAC
4.300	2.498
8.600	

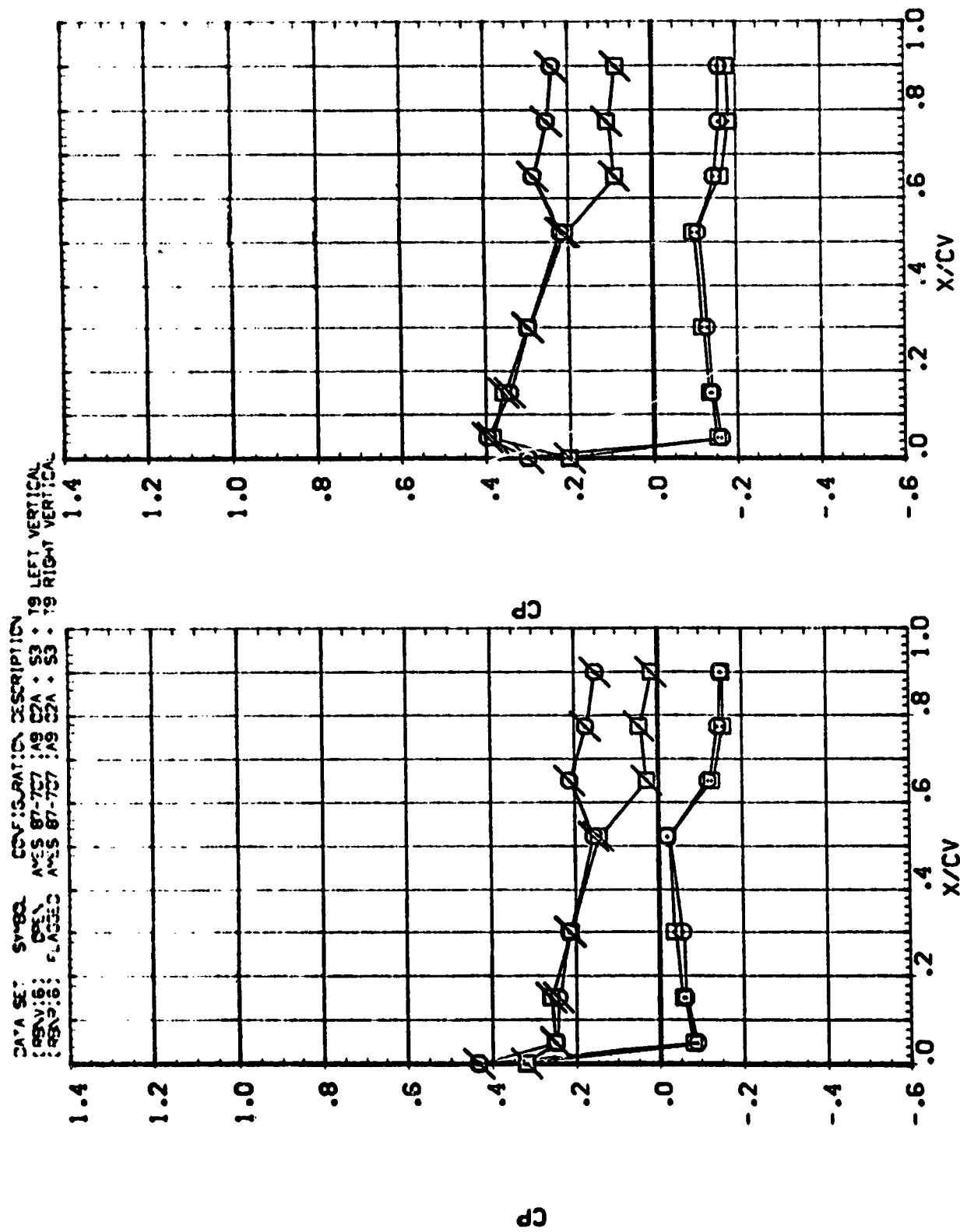
SWBC .150
 .316
 .600

DATA SET SWBC CONFIGURATION DESCRIPTION
 :RBN:6 : OPEN ASES 87-707 : A9 02A : S3 : 19 LEFT VERTICAL
 :RBN:6 : FLASSED ASES 87-707 : A9 02A : S3 : 19 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

5.4
 4.33C
 0.62

[illegible]

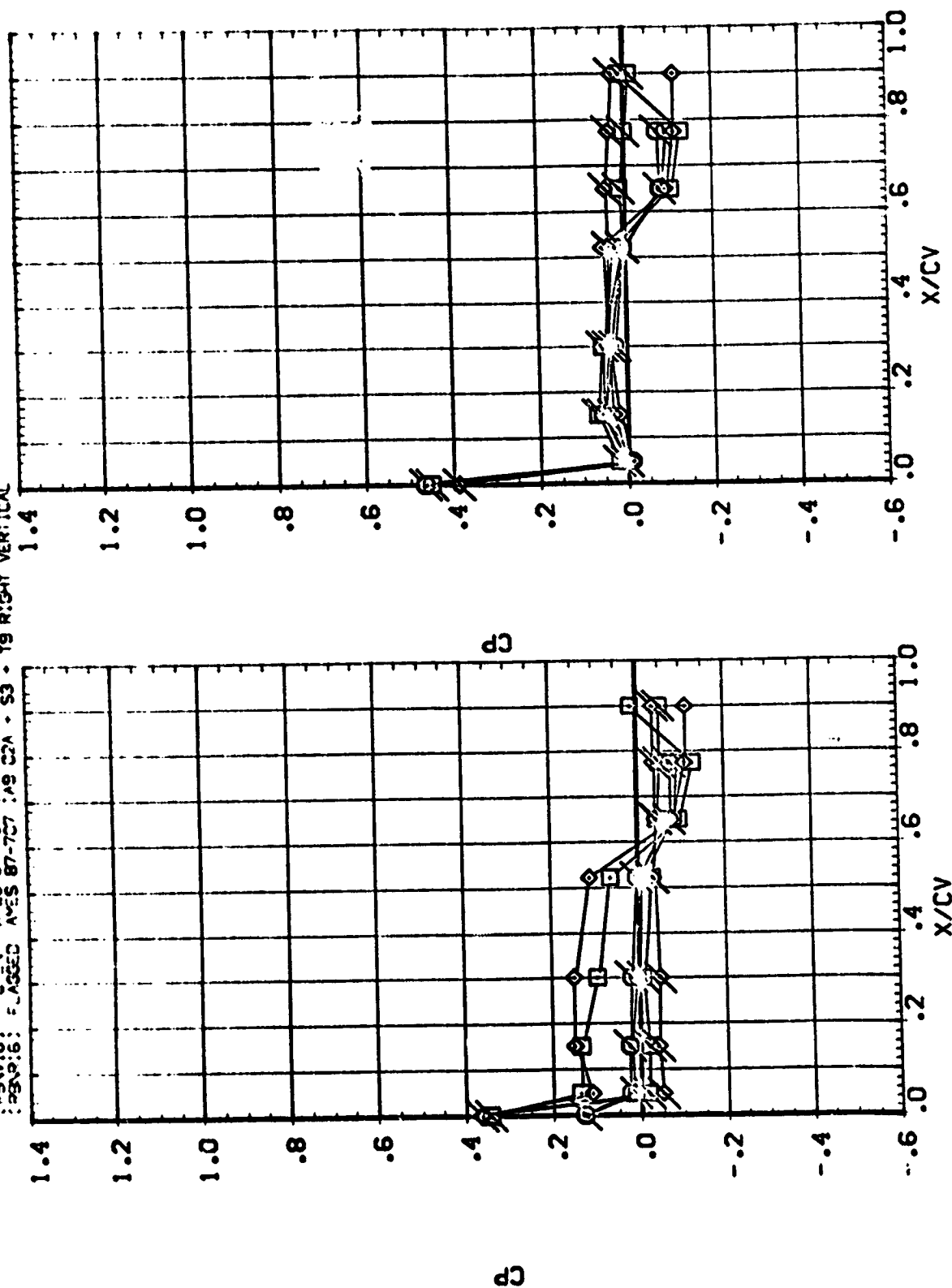
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PAGE 0:0

PARAMETRIC VALUES
 ALPHA: 8.000
 R_COEF: -15.000
 R_COEF_R: .000
 CDRINC: .500
 ELEVON: .000

SYMBOL Z/BV BETA' WAC
 .150 -4.730 2.999
 .316 .160
 .600

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 :B9V16: OPEN ASES 87-707 :A9 C2A : S3 : 19 LEFT VERTICAL
 :B9V16: FLAGGED ASES 87-707 :A9 C2A : S3 : 19 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

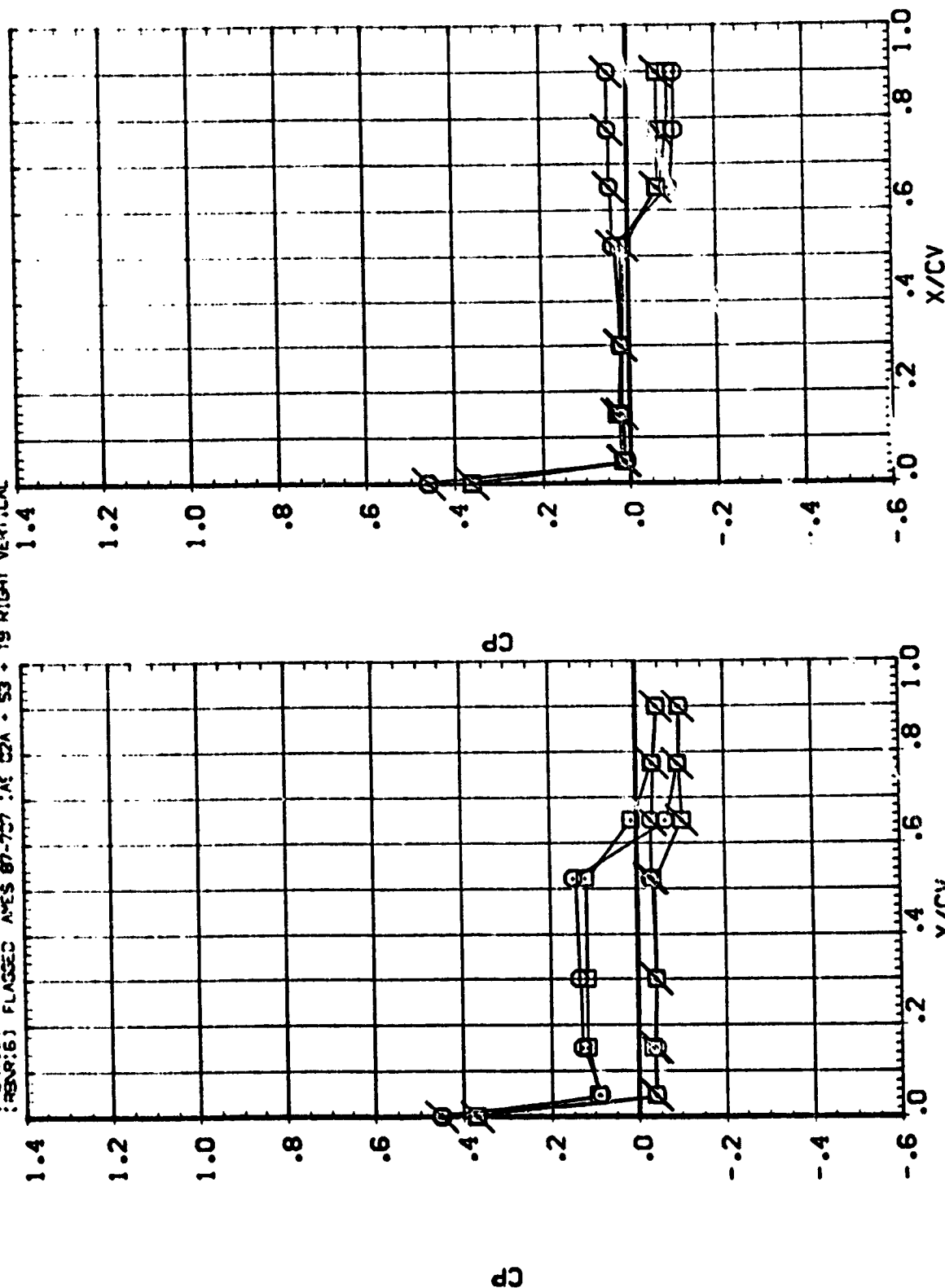
ALPHA	8.000	0.931 NC	.500
RCDER	-15.000	ELEV	.000
RCDER	.000		

SYMBOL Z/B

BETAT	WACH
-4.230	2.999
.040	
.975	.060

DATA SET SYMBOL CONF: SUBROUTINE DESCRIPTION

RENV: 16	OPEN	AXES 87-757 : A9 C2A : S3	19 LEFT VERTICAL
RENV: 16	FLAGGED	AXES 87-757 : A9 C2A : S3	19 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

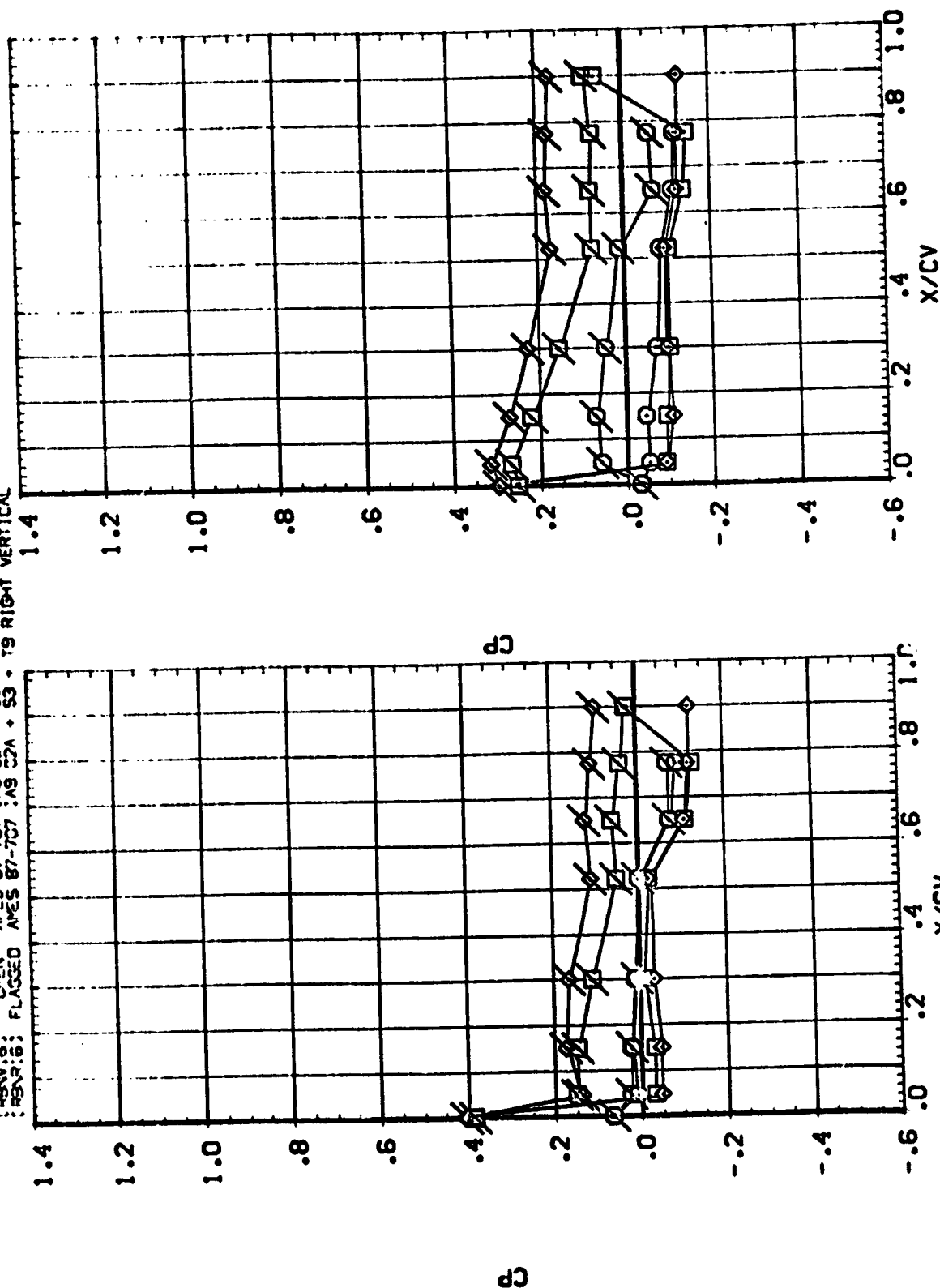
PARAMETRIC VALUES

ALPHAT	8.000	OPBINC	.500
RUDER	-15.000	ELEVON	.000
RUDLR	.000		

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 :REV:6: OPEN APES 87-707 :A9 C2A : S3 : T9 LEFT VERTICAL
 :REV:6: FLAGGED APES 87-707 :A9 C2A : S3 : T9 RIGHT VERTICAL

SYMBOL Z/BV BETAT MACH

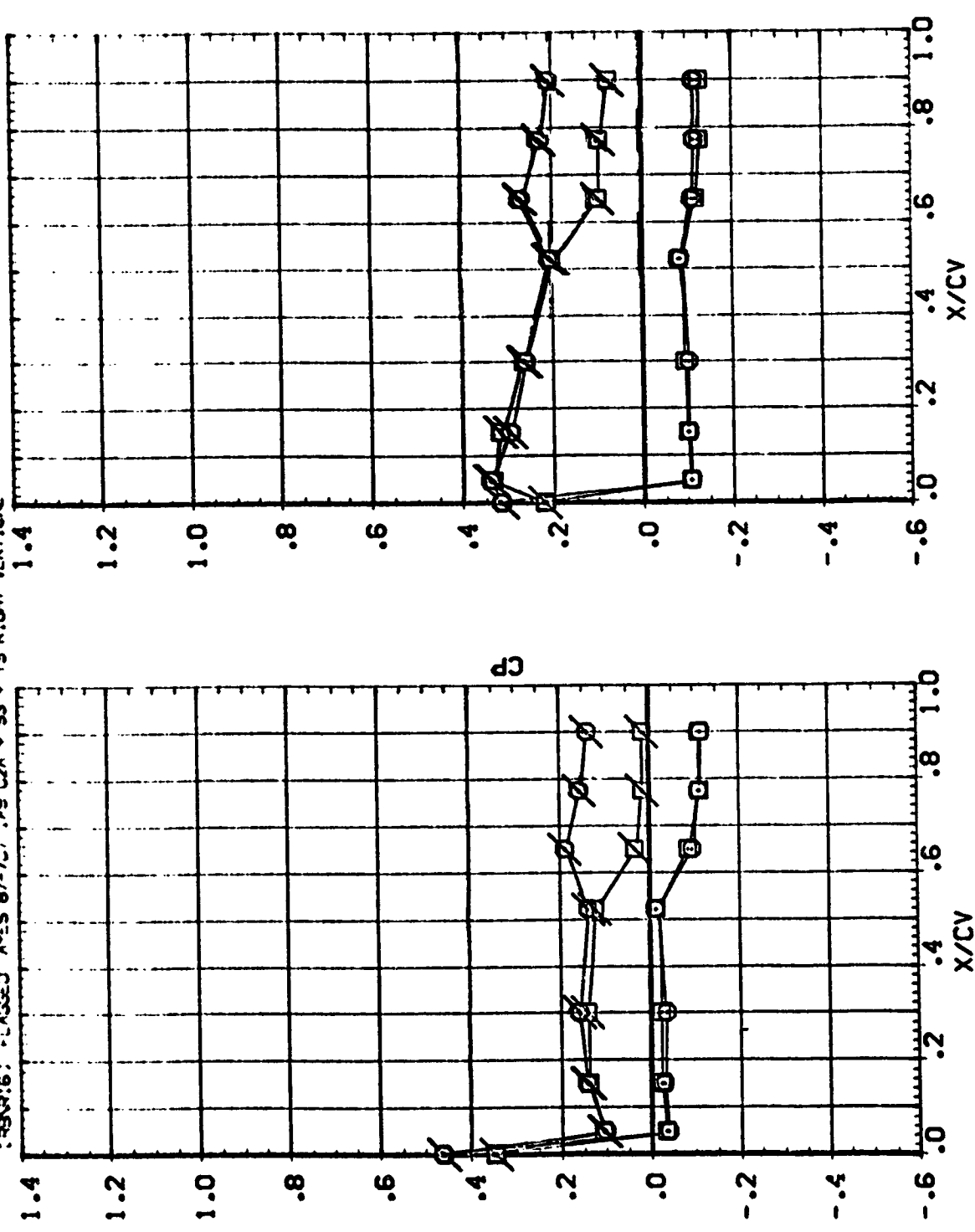
○	.158	4.400	7.999
□	.316	8.750	
◇	.600		



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL Z/B: .843
 .975
 BETA: 4.40C
 8.75C
 MACH: 2.999
 PARAMETRIC VALUES
 ALPHA: 8.00C
 RUDER -15.00C
 ROL: 2 .00C
 089: NC
 ELEV: 0.00C
 .50C
 .00C

DATA SET SYMBOL CONFIG: ON DESCRIPTION
 : RBNV: 16 : OPEN AVES 87-707 : AG C2A : S3 : 19 LEFT VERTICAL
 : RBNV: 16 : FLAGGED AVES 87-707 : AG C2A : S3 : 19 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

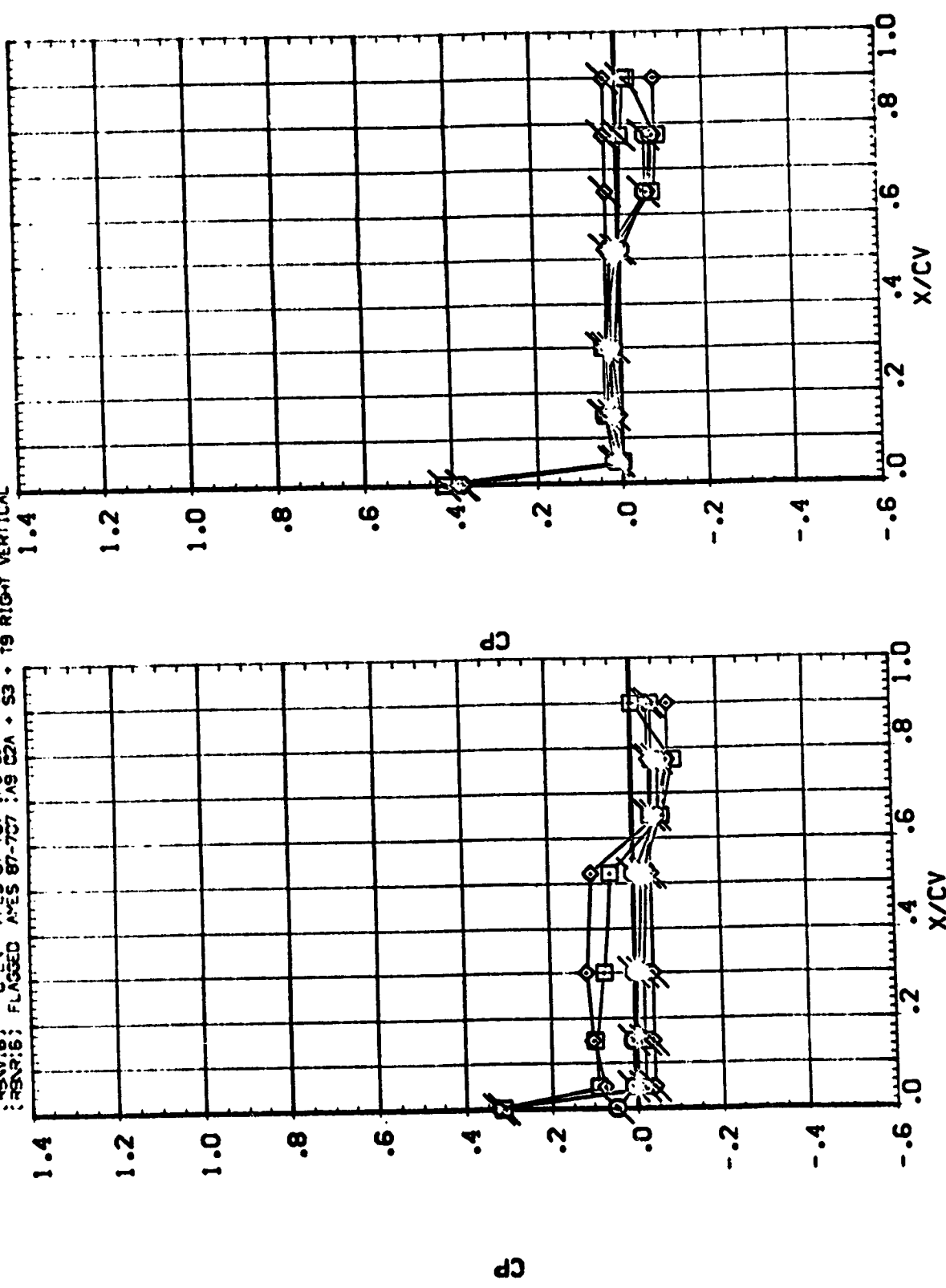
ALPHA	8.000	598.14	.500
RUDDER	-15.000	ELEVON	.000
RUD.P	.000		

SYMBOL Z/BV BETAT YACH

SYMBOL	Z/BV	BETAT	YACH
0110	.158	-4.320	3.522
	.316	.050	
	.600		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

RSW16	OPEN	AXES 87-707	AS C2A	S3	T9 LEFT VERTICAL
RSW16	FLAGGED	AXES 87-707	AS C2A	S3	T9 RIGHT VERTICAL

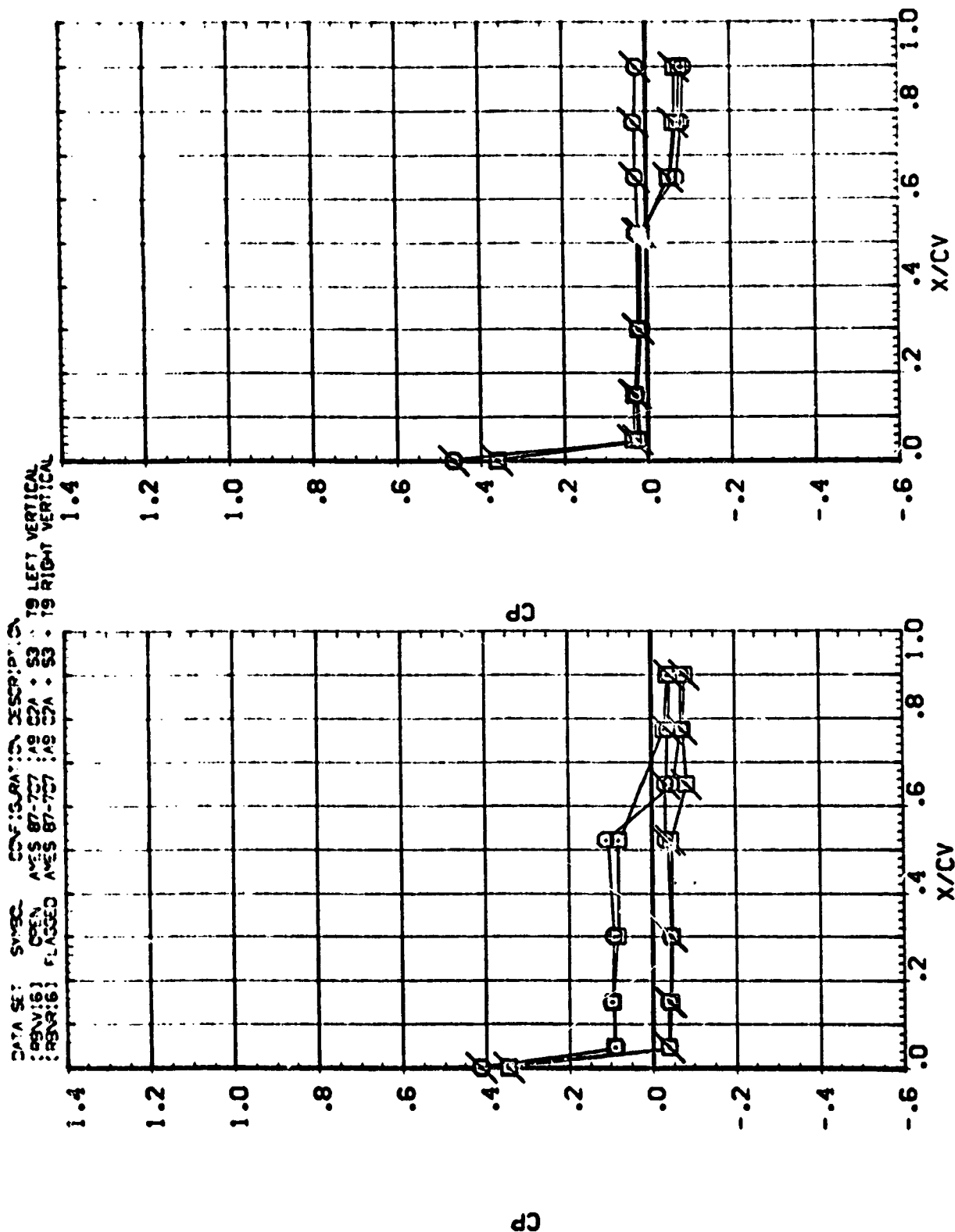


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYNCH 7/8. BETA' WAC-
 .842 4.30C 3.502
 .975 .050

ALPHA' 0.000 5981C
 RATED -15.000 ELEVON
 2.579 .000

GEOMETRIC VALUES
 .500
 .000



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

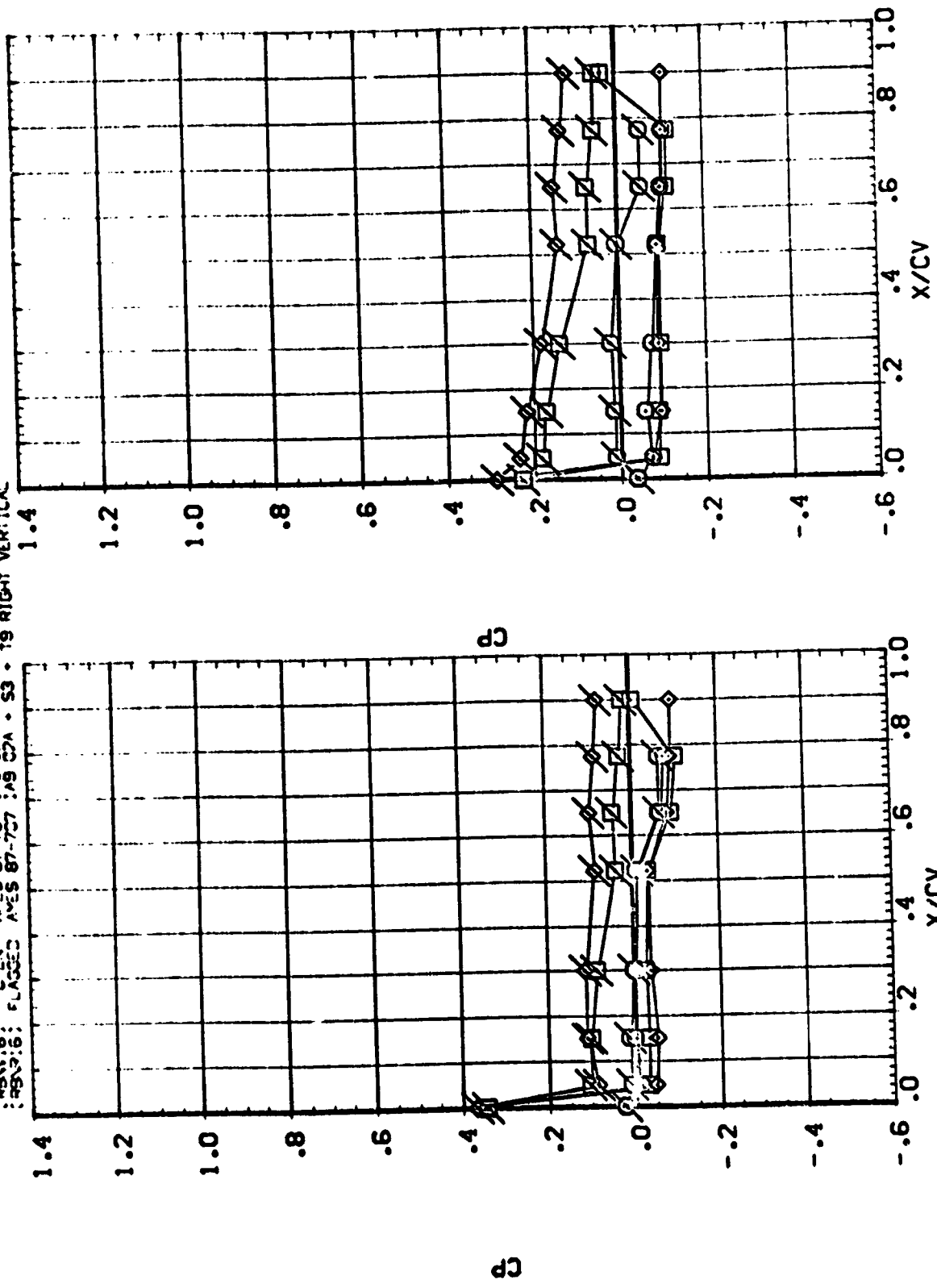
ALPHAT	8.000	ORBIT	.500
RJDER	-15.000	ELEVON	.000
	.000		

SYMBOL Z/B

WACH	3.502
BETAT	4.470
	8.500
	.600

DATA SET SYMBOL CONFIGURATION DESCRIPTION

REVAL:6	OPEN	AVES 87-707	AS 22A	53	19 LEFT VERTICAL
REVAL:6	PLACED	AVES 87-707	AS 22A	53	19 RIGHT VERTICAL

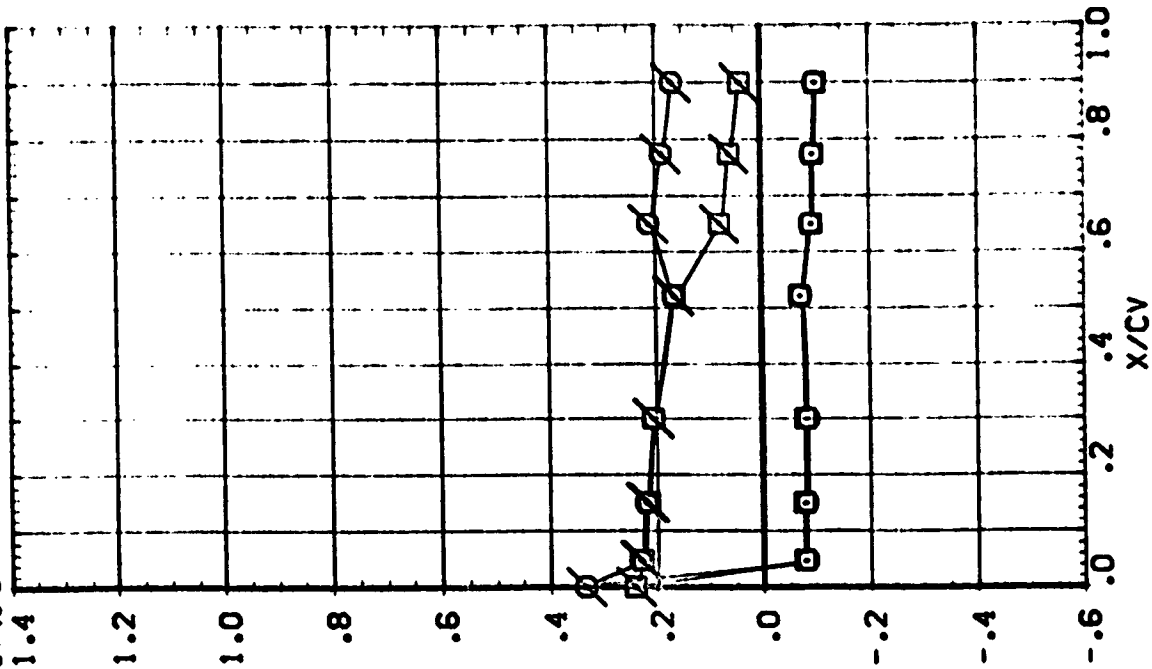
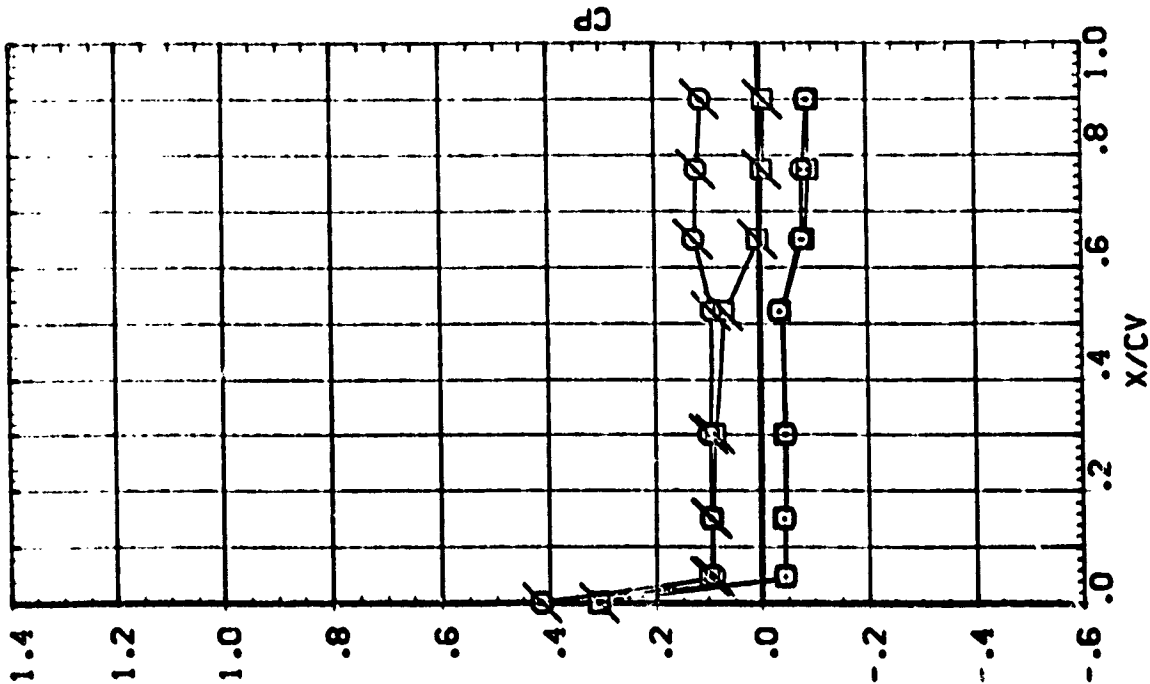


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL 2/3. 64C .925
 BEAT 4.472 8.922
 WAC 3.502

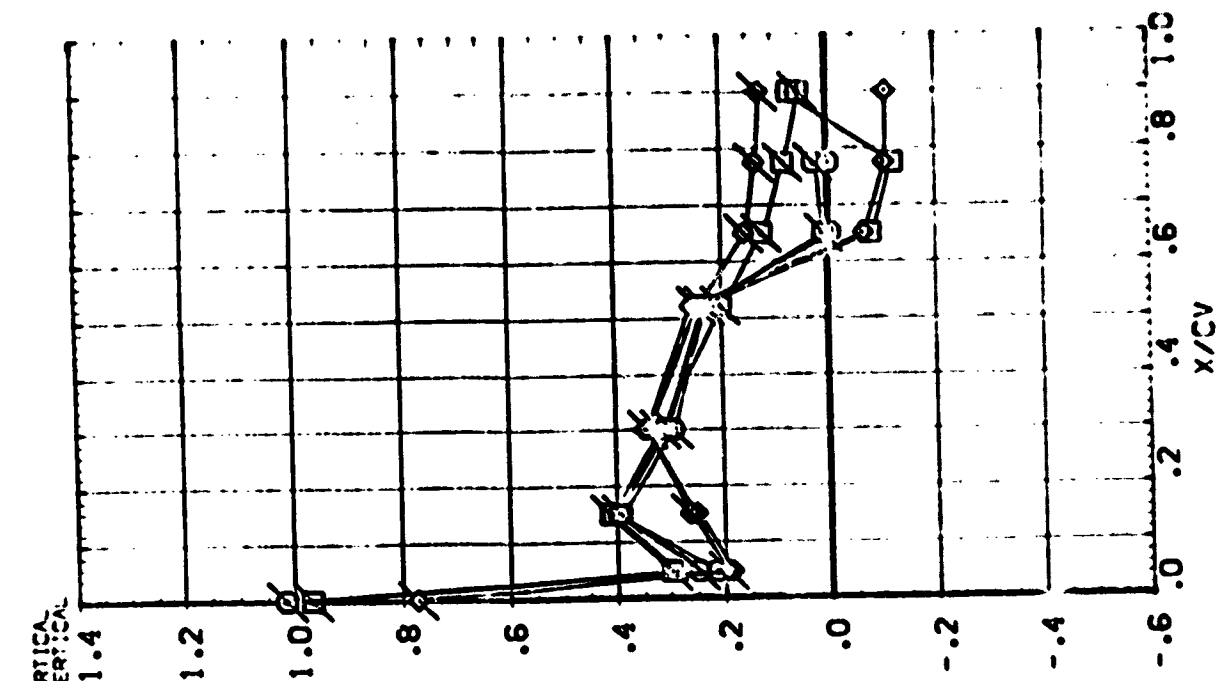
PARAMETRIC VALUES
 ALPHAT 8.000 0891NC .500
 RUDER -15.000 ELEVON .000
 RUOTLR .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 :RBN:6 OPEN AYES 87-707 :A9 C2A : S3 : 19 LEFT VERTICAL
 :RBN:6 FLAGGED AYES 87-707 :A9 C2A : S3 : 19 RIGHT VERTICAL

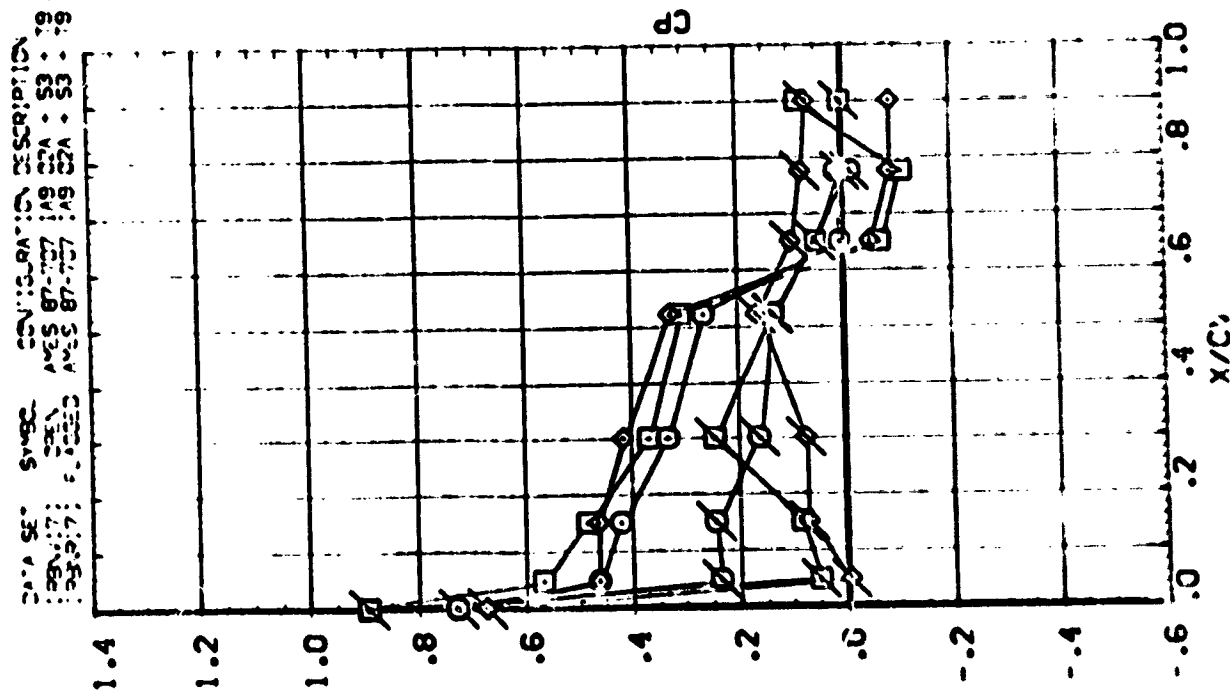


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES
 ALPHA* 0.000 0.000 0.000
 P225R 0.000 0.000 0.000
 P225LR 0.000 0.000 0.000

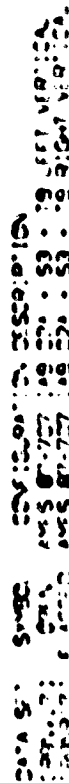


SYMBOLS
 1.50 1.50 1.50
 1.50 1.50 1.50
 1.50 1.50 1.50



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

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CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

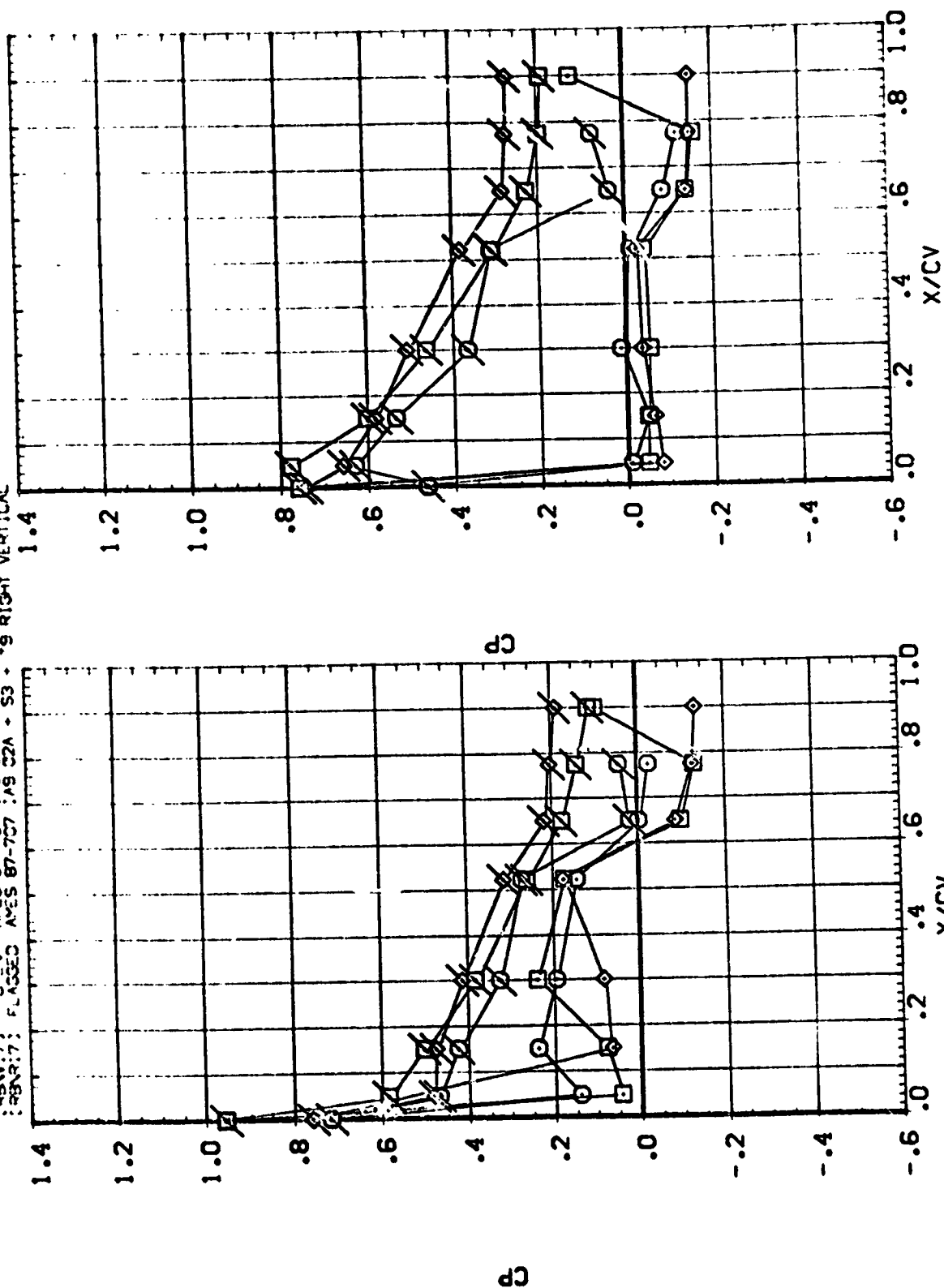
PARAMETRIC VALUES
 A.P.M. 999.1NC
 R.DOE 9
 R.DOE 9
 R.DOE 9

SYMBOL 2/3/4
 .58
 .316
 .600

BETA 4.330
 8.500

PAC 7.499

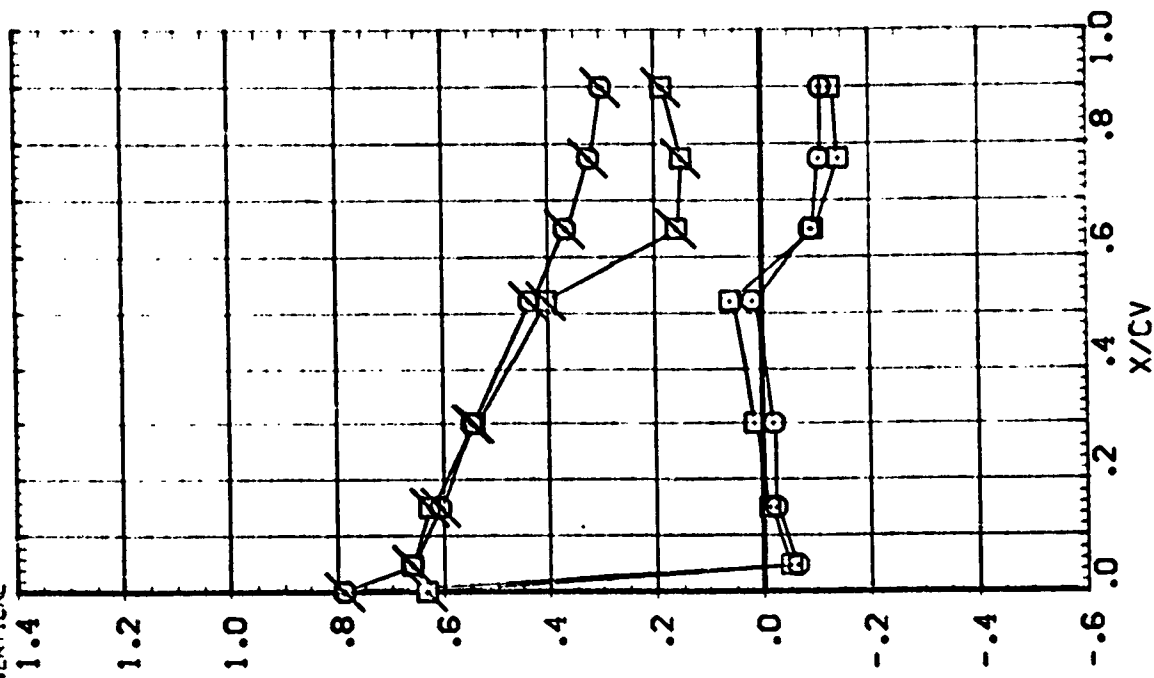
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 :RBW17: OPEN AXES 87-707 :A9 02A : S3 : 19 LEFT VERTICAL
 :RBW17: FLAGGED AXES 87-707 :A9 02A : S3 : 19 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

88

VERTICAL
VERTICAL

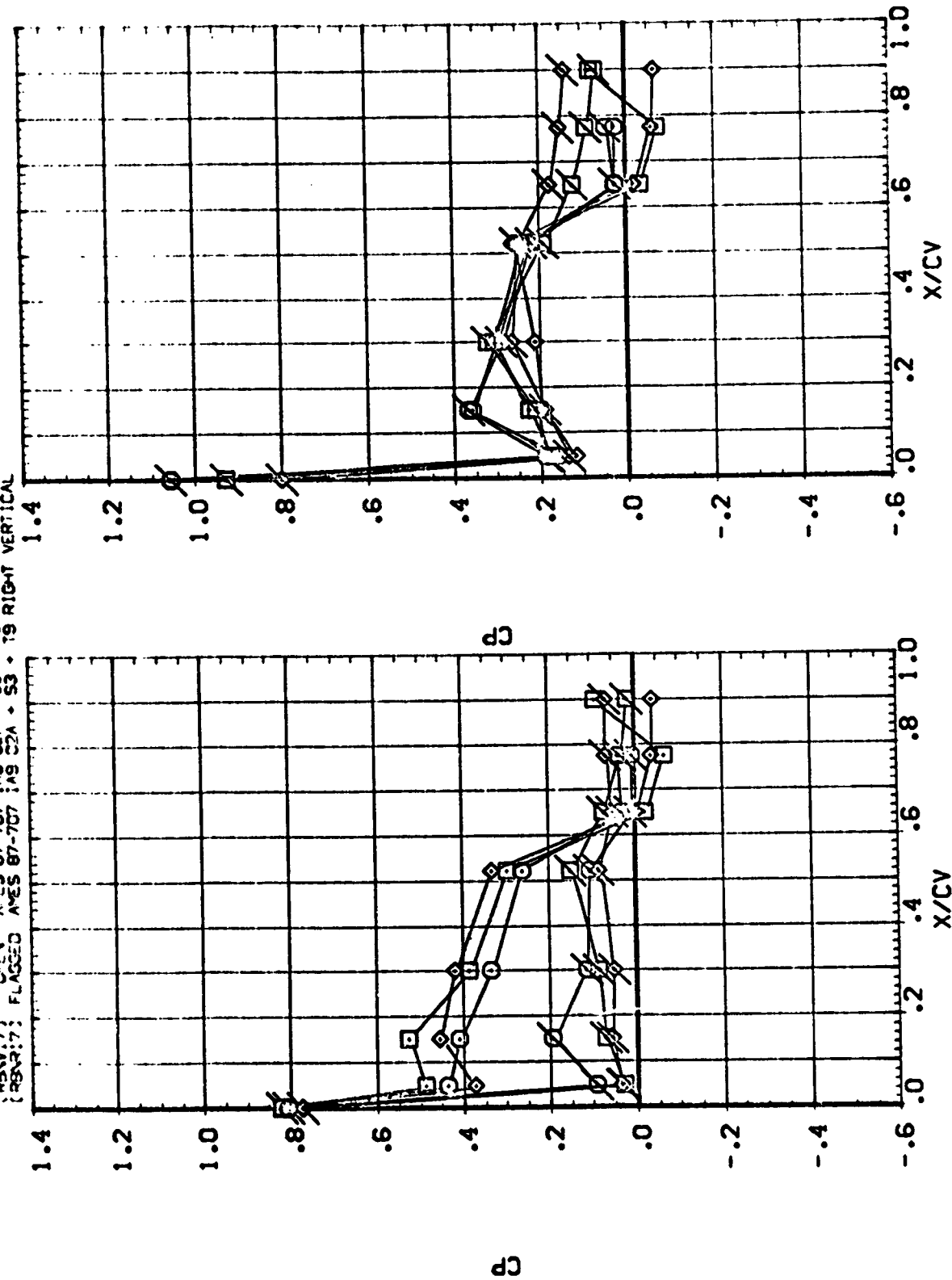


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES
 ALPHA: -8.000 0981N
 RUDER: -10.000 ELEVON
 RUDDER .000

SYMBOL Z/BV BETAT MACH
 .158 -4.24C 2.999
 .316 .06C
 .60C

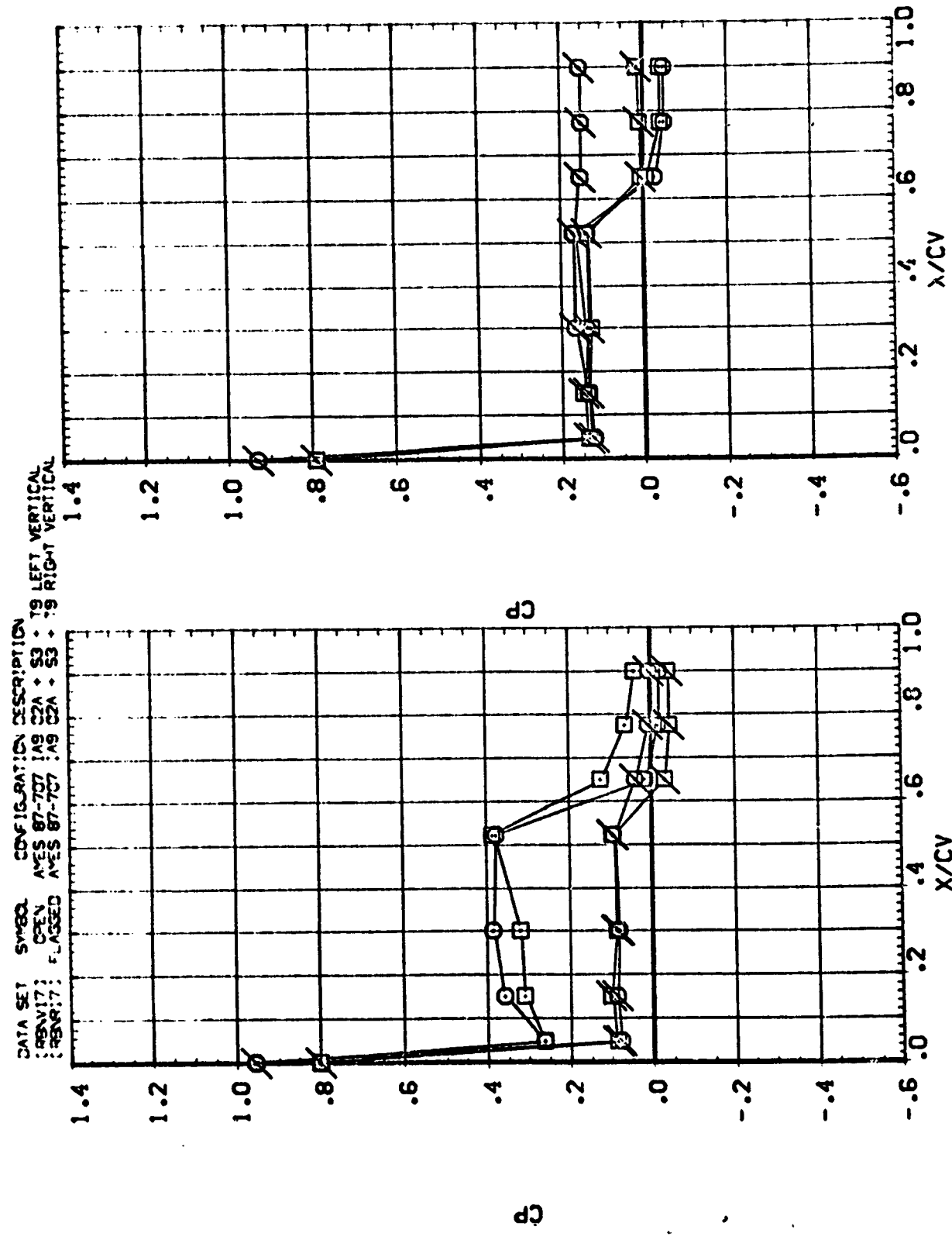
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBNV:7) OPEN AYES 87-707 :A9 C2A : S3 : T9 LEFT VERTICAL
 (RBNV:7) FLAGGED AYES 87-707 :A9 C2A : S3 : T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES
 ALPHAT -8.000 099.1°C
 RCOEP -10.000 ELEVON
 RCOEP .000

S-93C 279, .84C
 BETA -4.240 7.999
 .975 .060

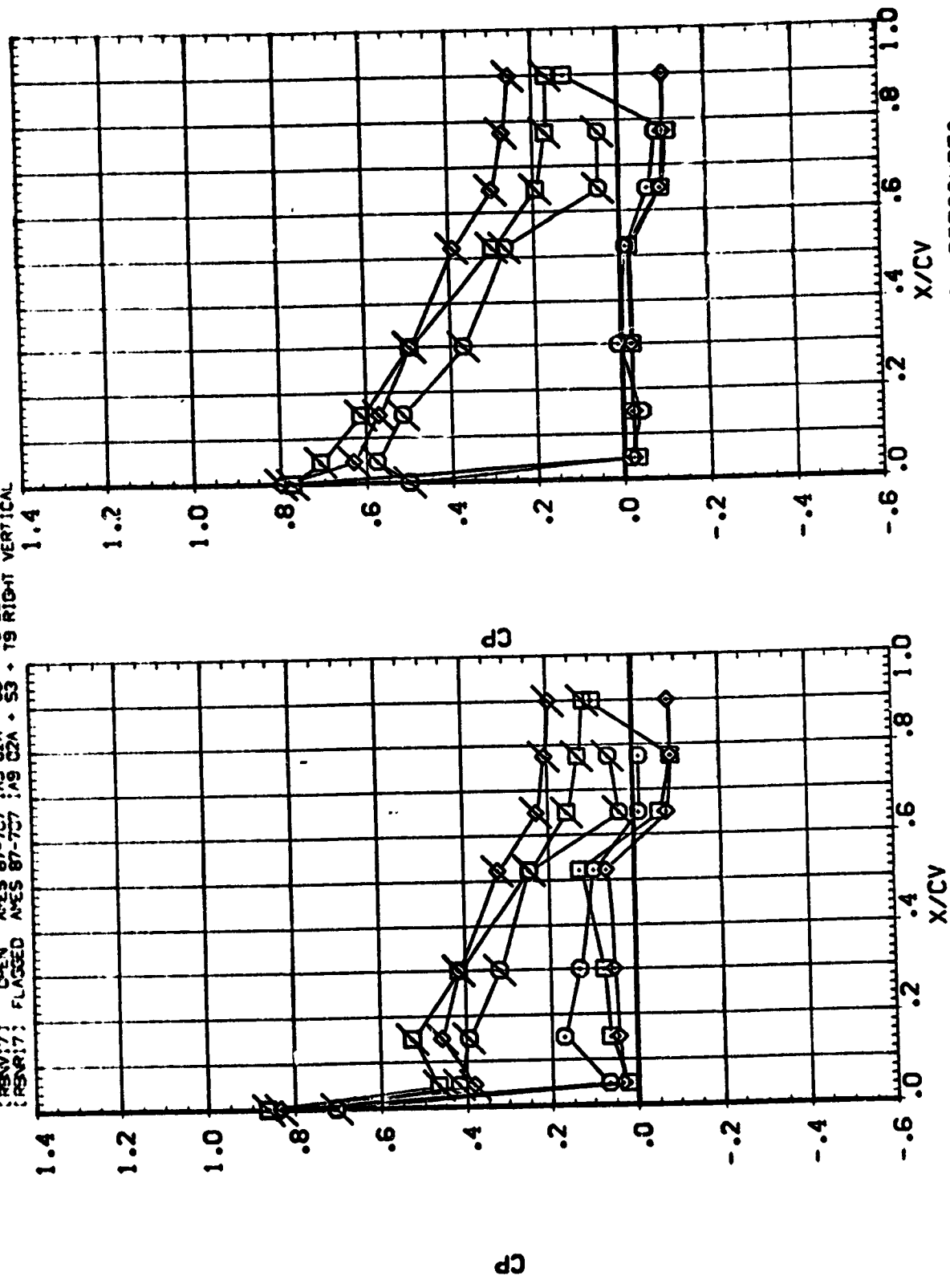


SYMBOL Z/BV
 .158
 .316
 .600

BETAT MACH
 4.410 2.999
 8.760

PARAMETRIC VALUES
 ALPHAT -8.000 DRBINC .500
 RUDDER -10.000 ELEVON .000
 RUFLR .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 :RBNV:7: OPEN AXES 87-757 :A9 C2A : S3 : 19 LEFT VERTICAL
 :RBNV:7: FLAGGED AXES 87-757 :A9 C2A : S3 : 19 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

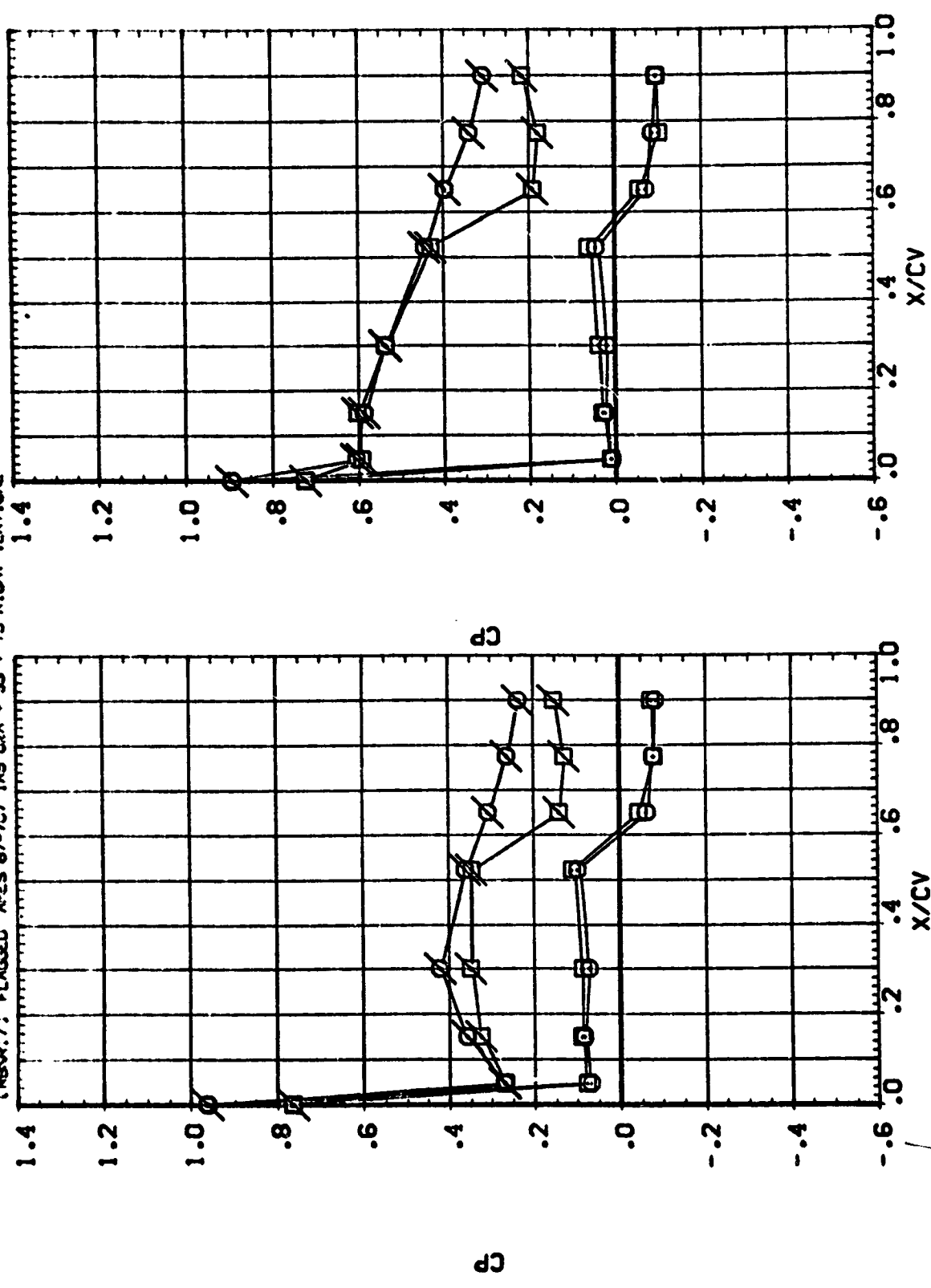
PARAMETRIC VALUES

ALPHAT	-8.000	ORGINC	.500
RJODER	-10.000	ELEVON	.000
RJDFLR			.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (REV:7) OPEN AYES 87-707 IAS CDA + S3 + 19 LEFT VERTICAL
 (REV:7) FLAGGED AYES 87-707 IAS CDA + S3 + 19 RIGHT VERTICAL

SYMBOL Z/BV BETAT MACH

()	.84C	4.41C	2.999
()	.925	8.76C	



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

==

SYMBOL
 ○ □ ◇

Z/BV .158
 .316
 .600

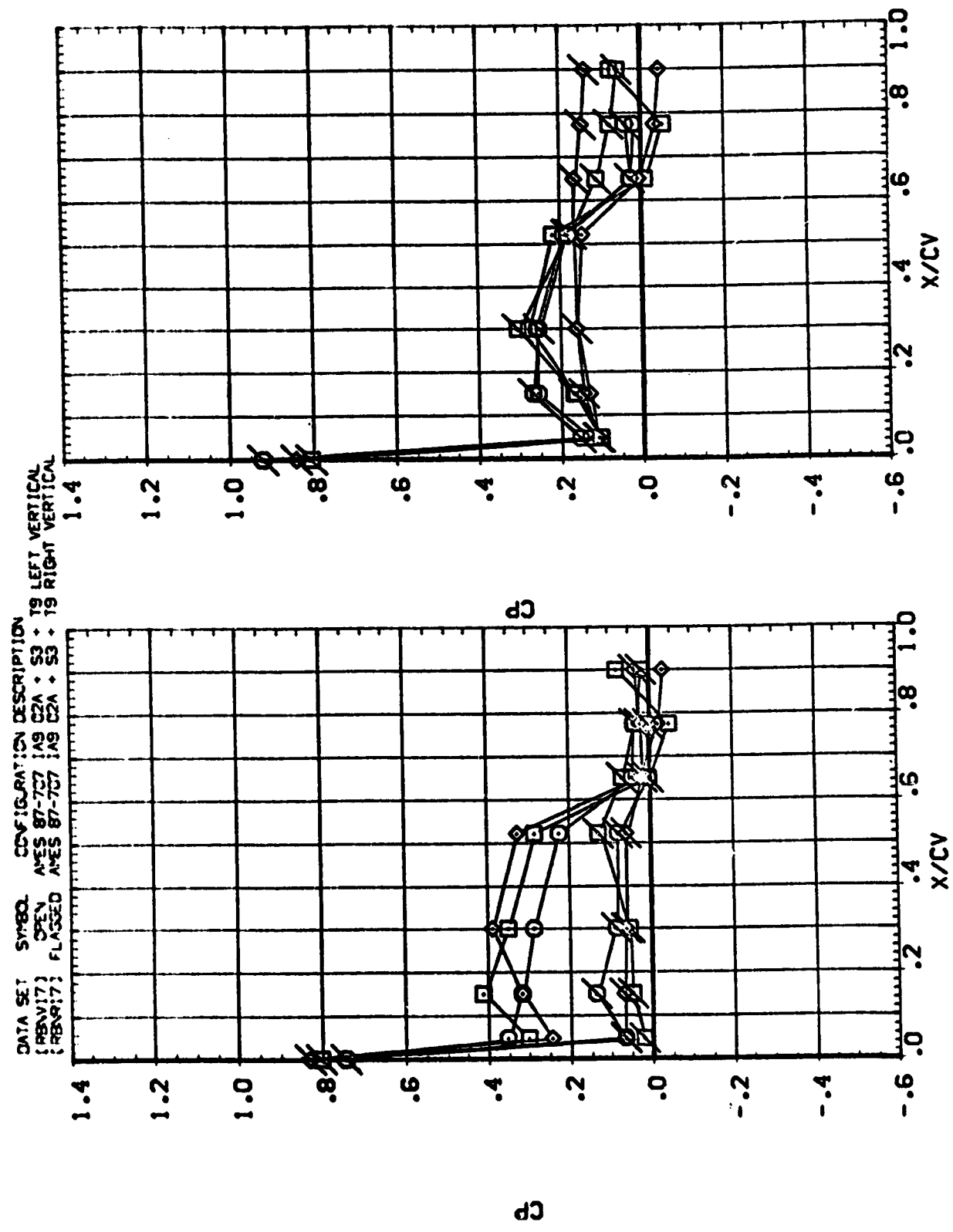
BETAT -4.32C
 .06C

"AC" 3.502

PARAMETRIC VALUES

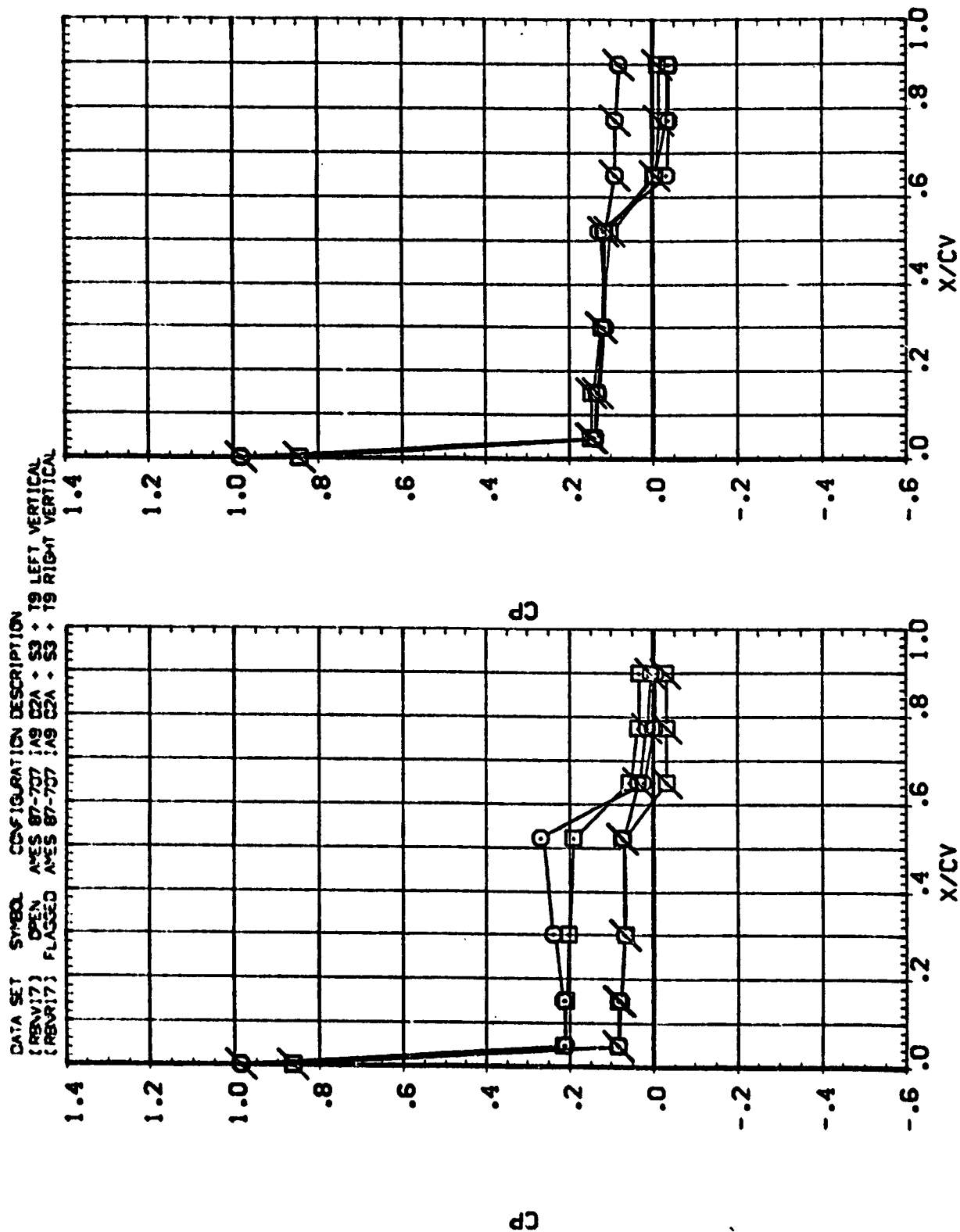
ALPHAT -8.000
 RUDER -10.000
 RUFLR .000

CRBINC .500
 ELEVON .000

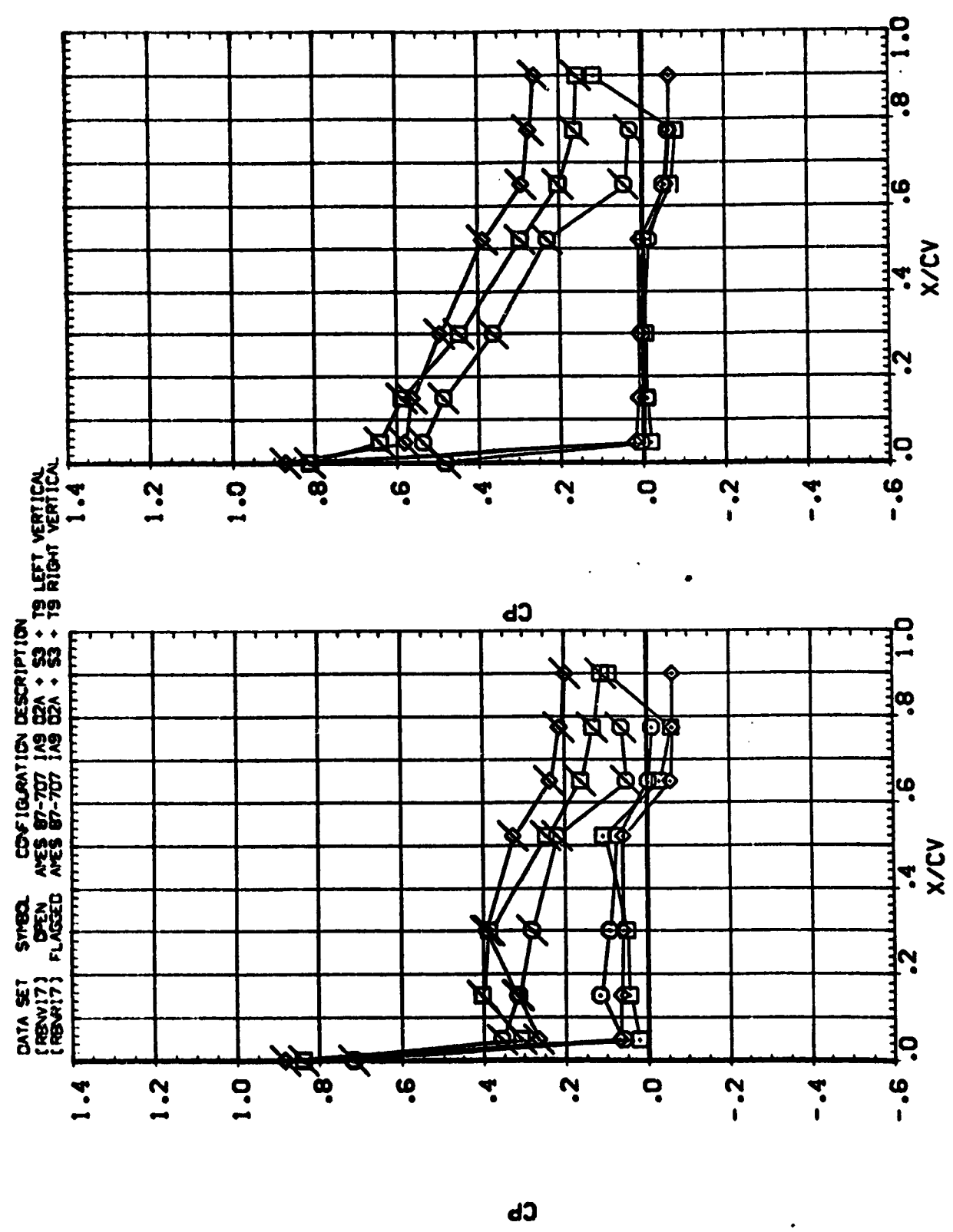


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	7/31	BETAT	WACH	PARAMETRIC VALUES
	.843	-4.320	3.532	ALPHA
	.975	.086		RUDDER
				RJOF LR
				-8.000
				-10.000
				DRBINC
				ELEVON
				.500
				.000

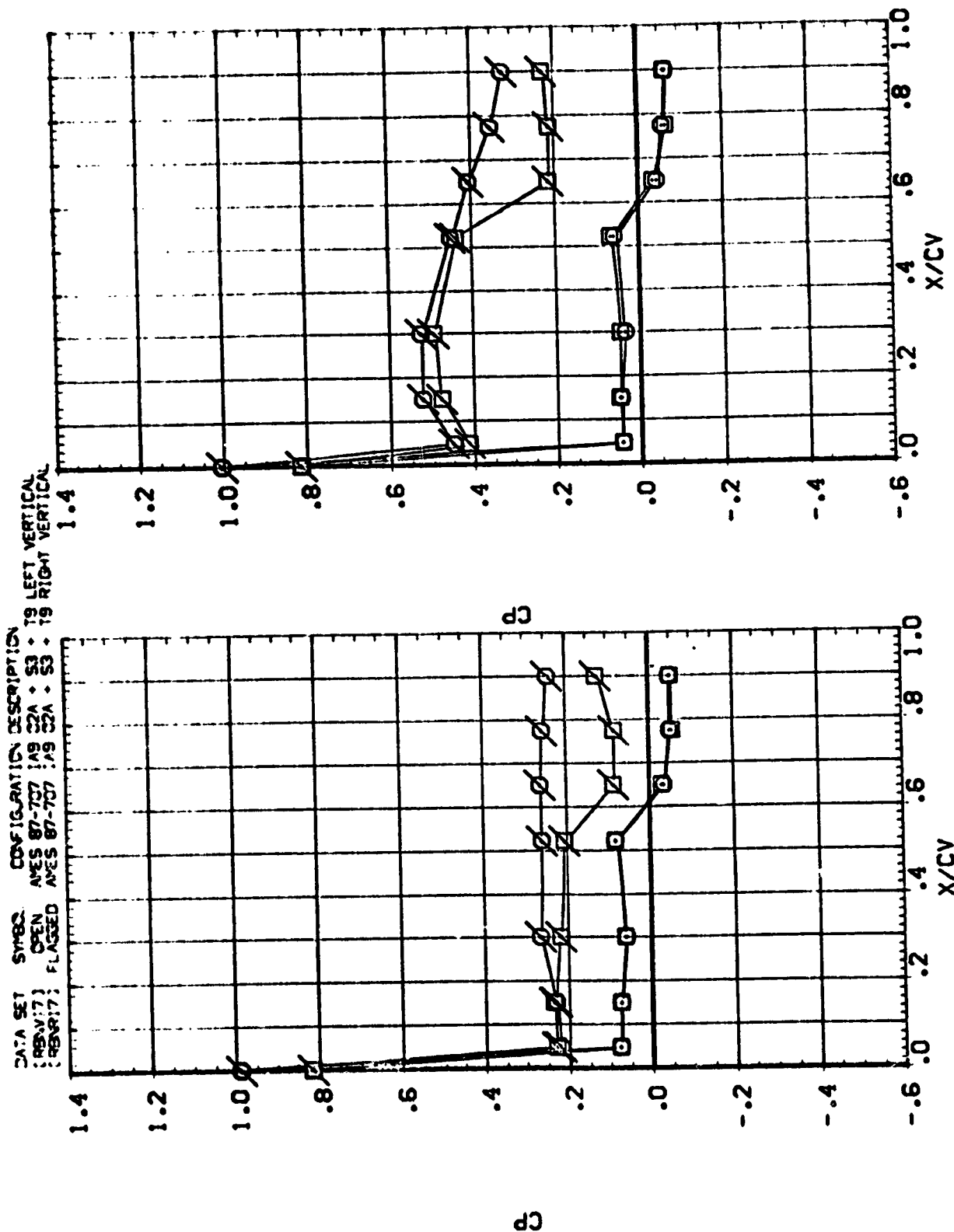


SYMBOL	Z/BV	BETAT	MACH	PARAMETRIC VALUES
○	.158	4.450	3.502	ALPHA
□	.316	0.910		ROTOR
◇	.630			R.O.F.L.R
				-8.000
				ORBITING
				-10.000
				ELEVON
				.500
				.000



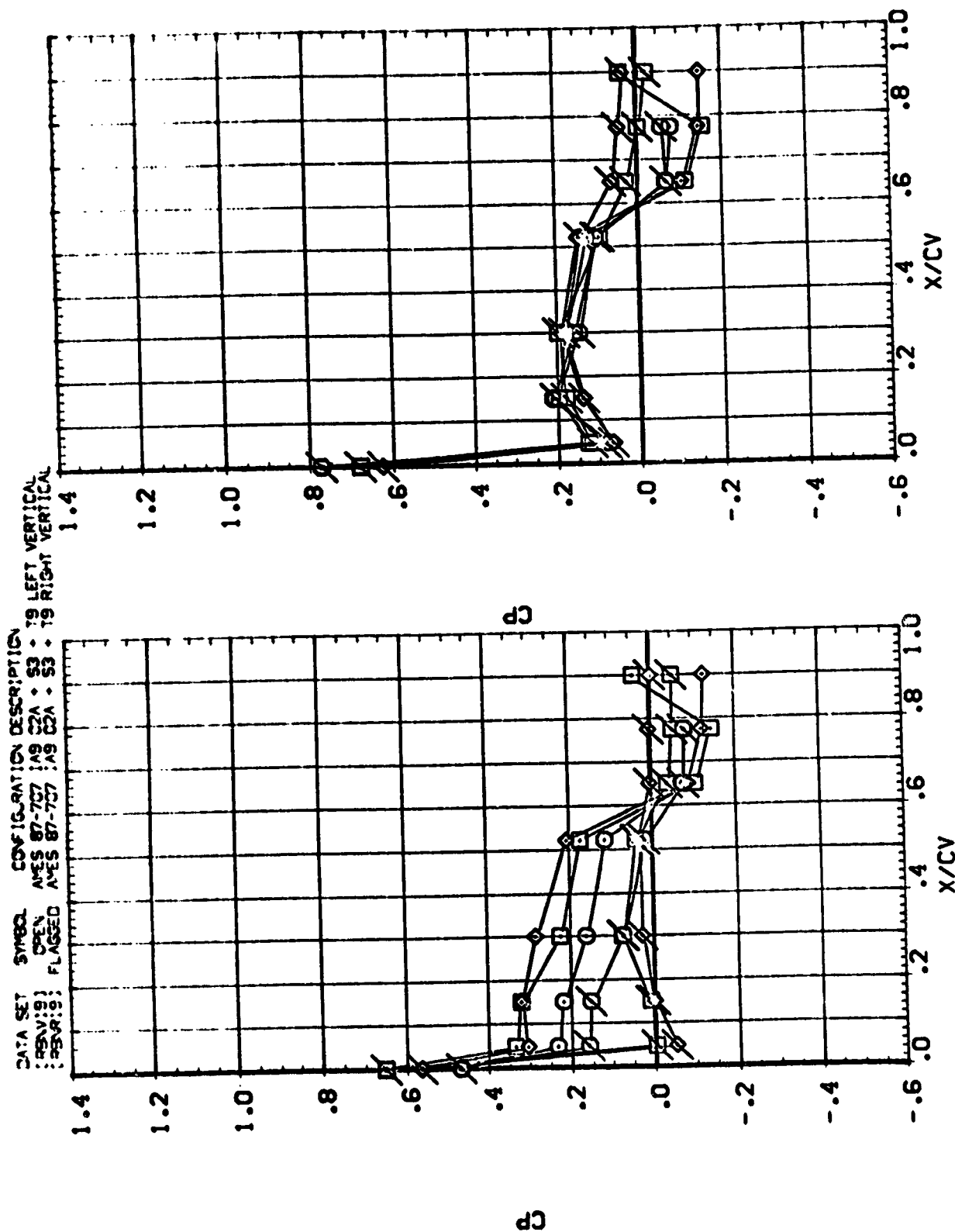
SYMBOL Z/B/ BEAT WACH
 () .840 4.490 3.502
 () .925 8.910

PARAMETRIC VALUES
 ALPHAT 0.000 999.0
 RUDDER 0.000 0.000
 RUDLR 0.000 0.000



SYMBOL Z/BV BETA_T MACH
 ○ .158 -4.180 2.499
 □ .316 .060
 ◇ .600

PARAMETRIC VALUES
 ALPHA_T .000
 RUDER -10.000
 RUFLR .000

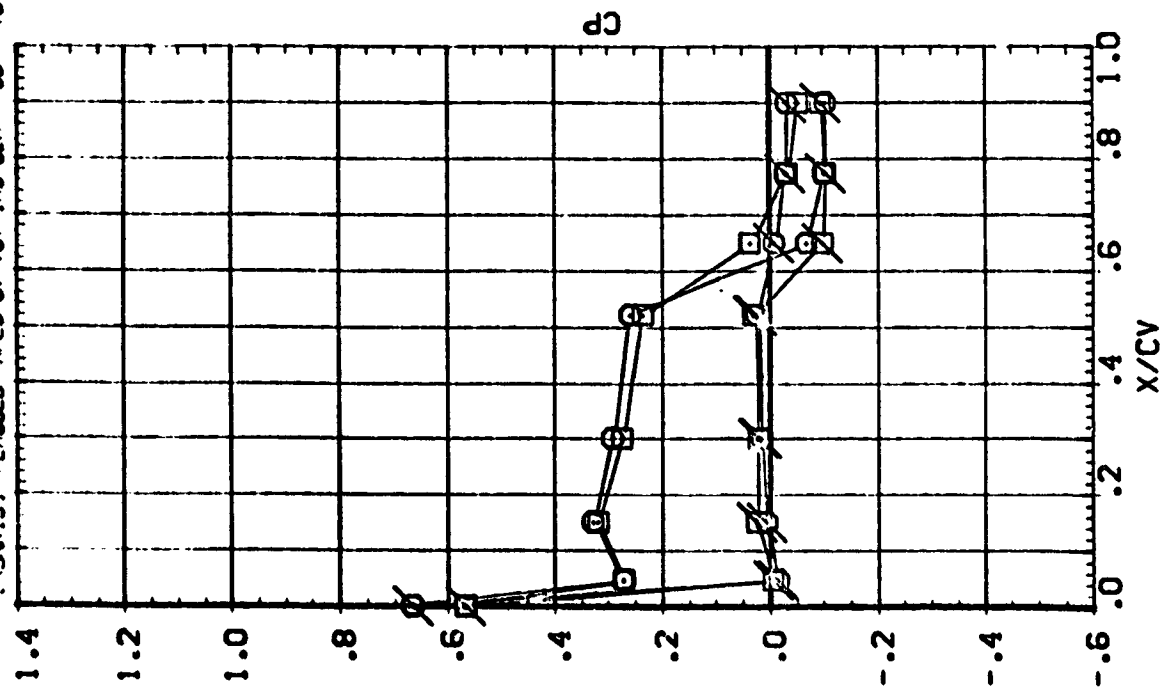
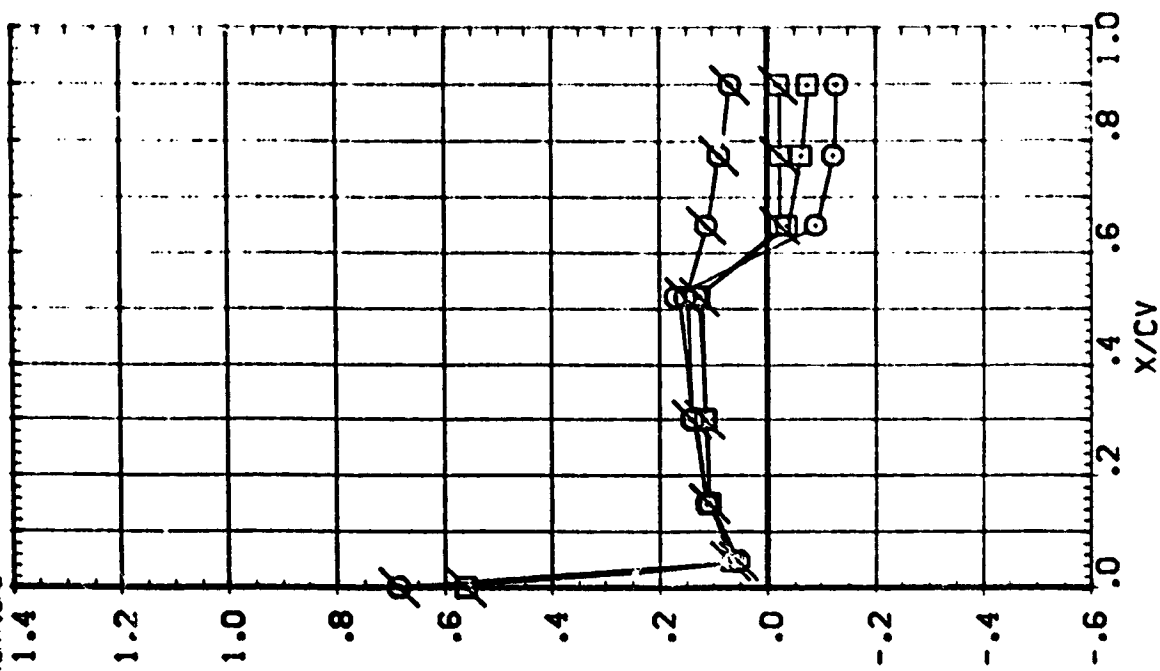


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES
 .000 298.15C
 .000 10.000
 .000

ALPHAT
 RDOER
 RDOFLR

DATA SET: SYMBOL CONFIGURATION DESCRIPTION
 : 05V19: OPEN AYES 87-707 : A9 C2A : S3 : 19 LEFT VERTICAL
 : 05V19: FLAGGED AYES 87-707 : A9 C2A : S3 : 19 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

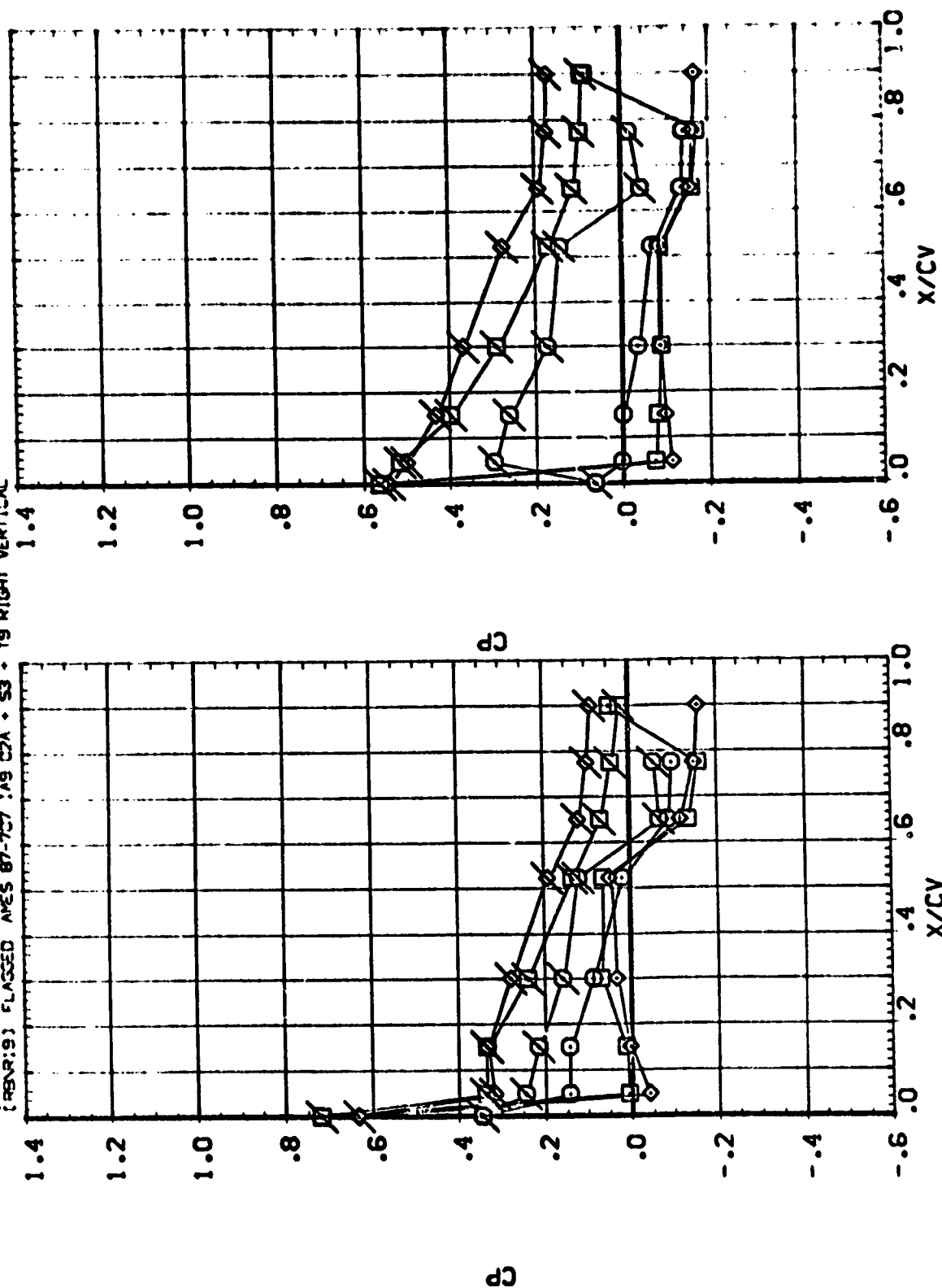
ALPHA	.000	0.000
BETTER	0.000	0.000
ROSTER	0.000	0.000

SYMBOL

Z/EV	1.58	WACH	2.489
BETAT	4.300		
0.000	0.550		

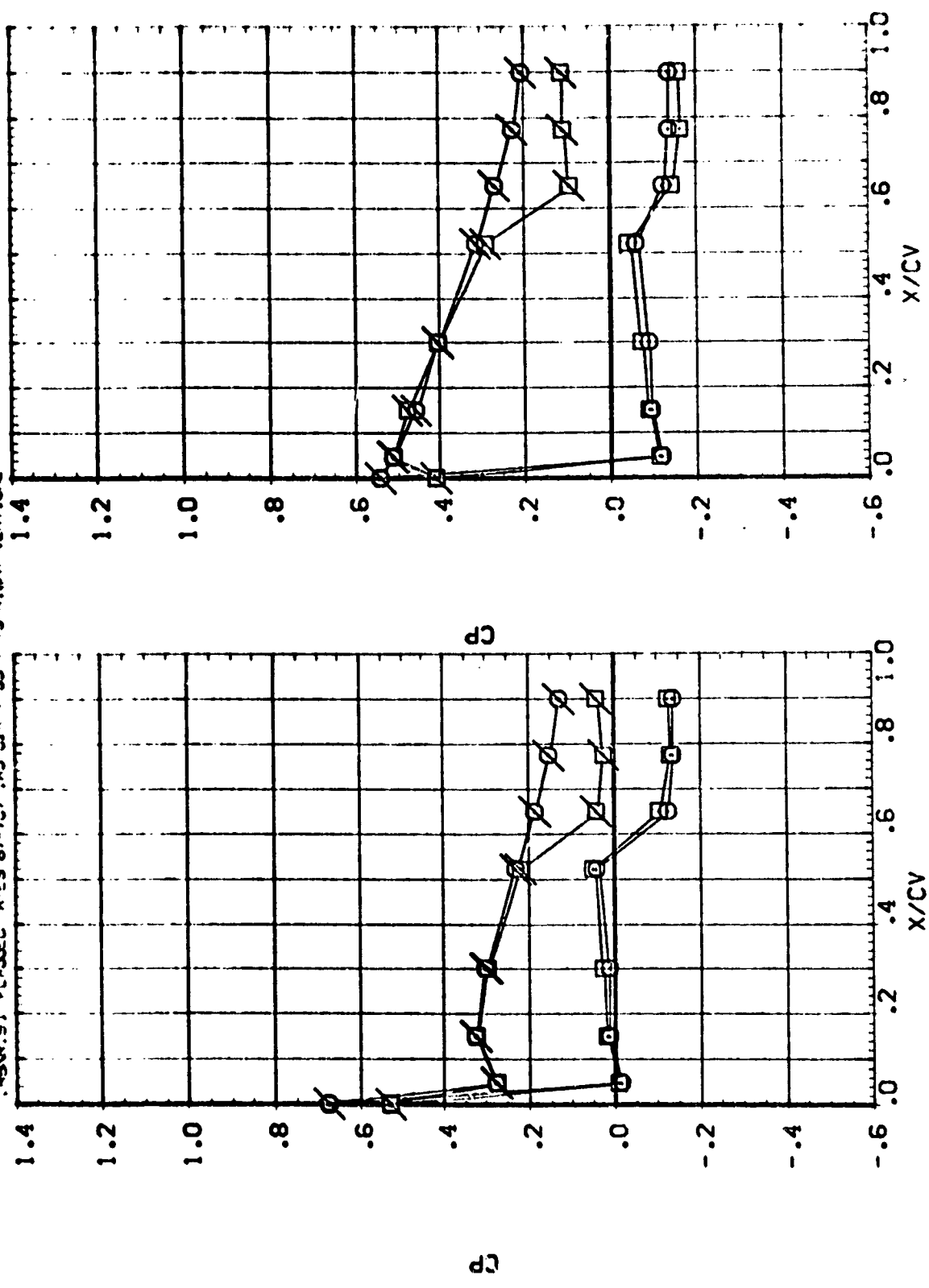
DATA SET SYMBOL CONFIGURATION DESCRIPTION

19BNV:9	OPEN	AXES 87-757	19 C2A + S3	19 LEFT VERTICAL
19BNR:9	FLASSED	AXES 87-757	19 C2A + S3	19 RIGHT VERTICAL



S-48C 2/3/ 84C 92% BE-A 4.300 2.499 VAC- 2.499
 0.01 0.02 0.03 0.04 0.05 0.06 0.07 0.08 0.09 0.10 0.11 0.12 0.13 0.14 0.15 0.16 0.17 0.18 0.19 0.20 0.21 0.22 0.23 0.24 0.25 0.26 0.27 0.28 0.29 0.30 0.31 0.32 0.33 0.34 0.35 0.36 0.37 0.38 0.39 0.40 0.41 0.42 0.43 0.44 0.45 0.46 0.47 0.48 0.49 0.50 0.51 0.52 0.53 0.54 0.55 0.56 0.57 0.58 0.59 0.60 0.61 0.62 0.63 0.64 0.65 0.66 0.67 0.68 0.69 0.70 0.71 0.72 0.73 0.74 0.75 0.76 0.77 0.78 0.79 0.80 0.81 0.82 0.83 0.84 0.85 0.86 0.87 0.88 0.89 0.90 0.91 0.92 0.93 0.94 0.95 0.96 0.97 0.98 0.99 1.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 :R8V:8: OPEN ASES 87-707 :A9 C2A : S3 : 19 LEFT VERTICAL
 :R8V:9: FLASSEC ASES 87-707 :A9 C2A : S3 : 19 RIGHT VERTICAL

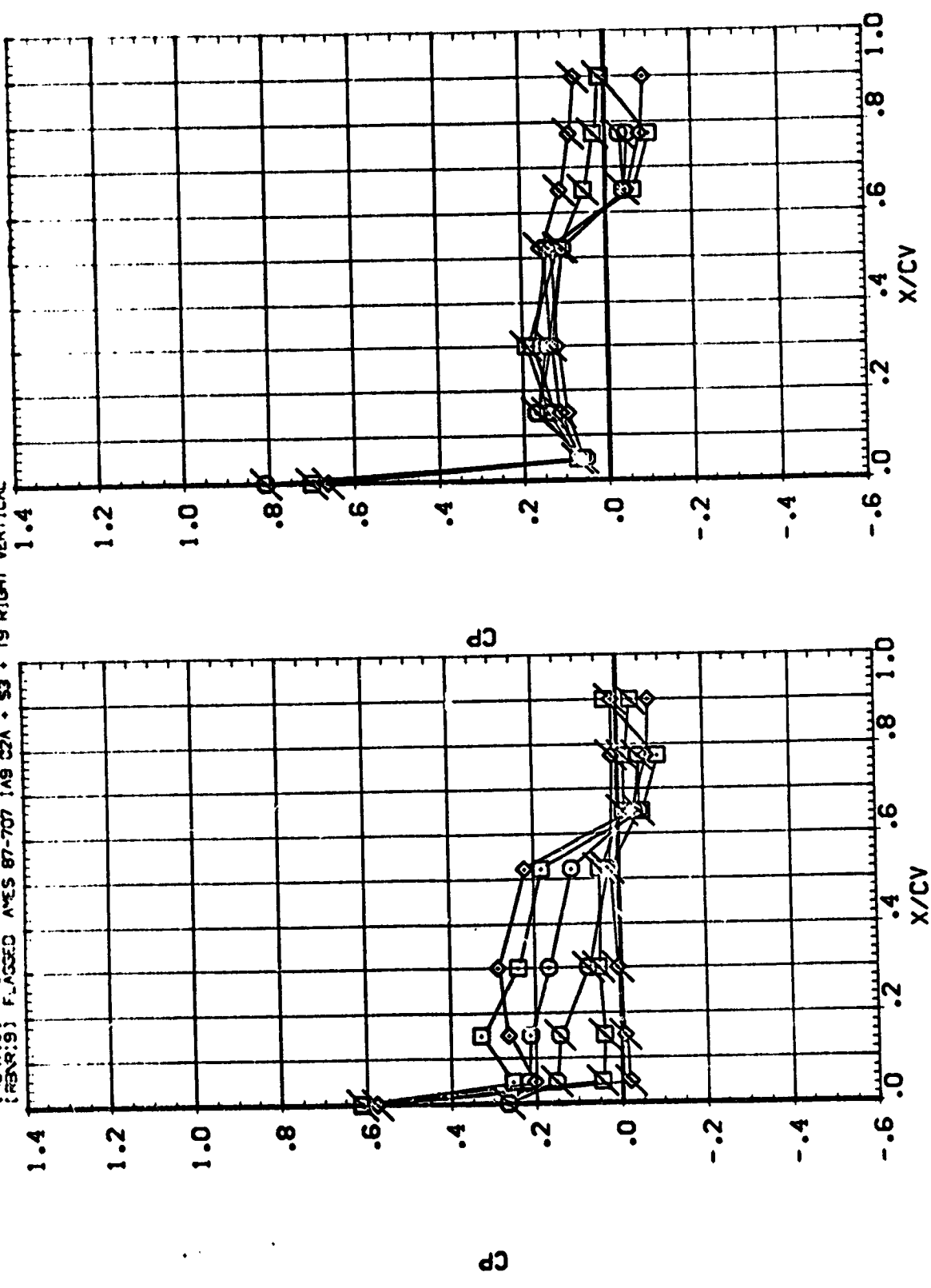


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES
 ALPHAT .000
 RUDER .000
 RDTLR .000
 SDB:NC .500
 ELEVON .000

SYMB: 2/BN .150
 BETAT -4.760
 MACH 2.999
 .316
 .060
 .600

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (REV:9) OPEN AYES 87-707 (A9 02A + S3 + 19 LEFT VERTICAL
 (REV:9) FLAGGED AYES 87-707 (A9 02A + S3 + 19 RIGHT VERTICAL

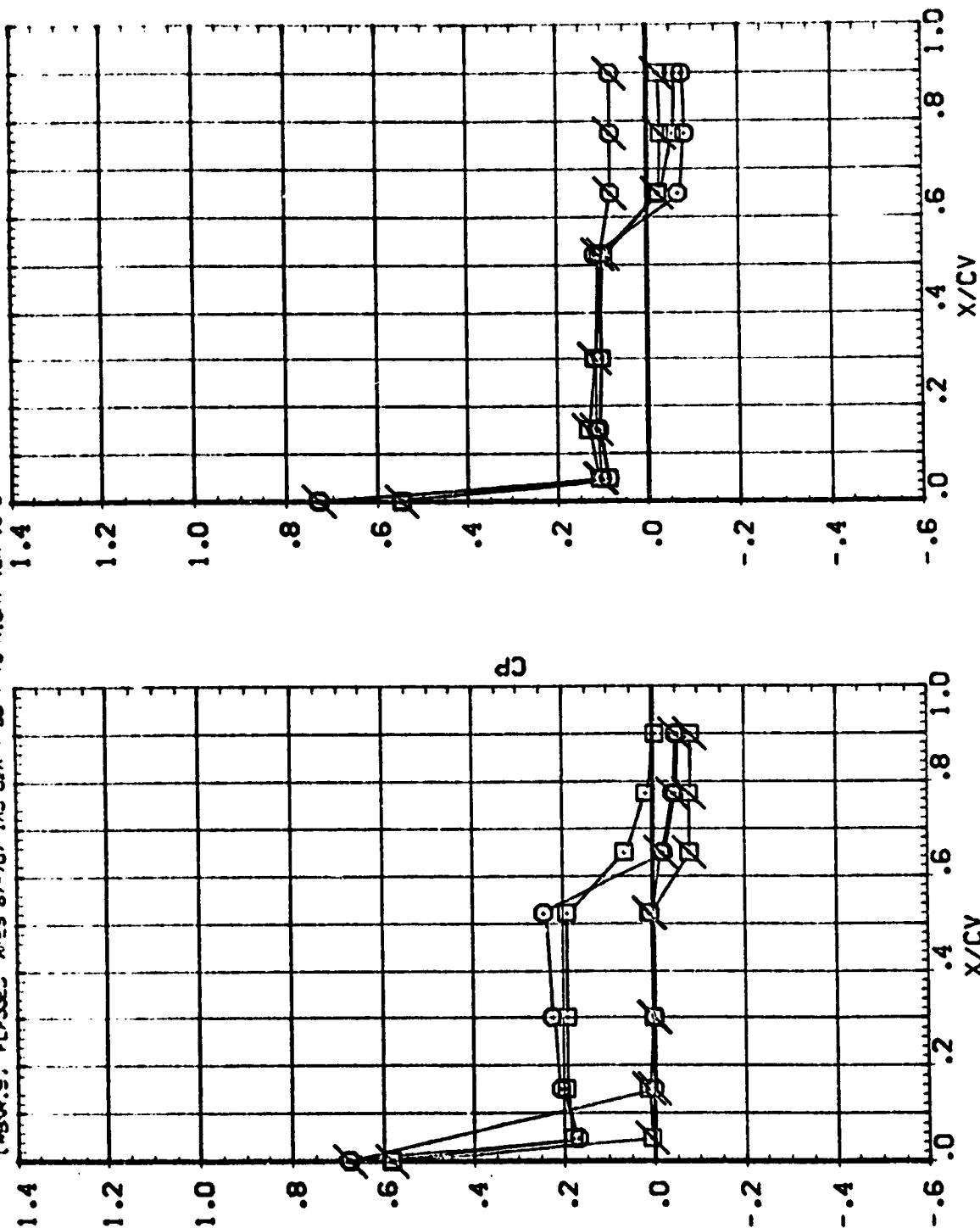


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

ALPHA .000 0.001
 RUDDER -10.000 0.000
 RUDDLR .000

UPPER -4.260 2.999
 LOWER .840 .925

DATA SET: SYMBO. CONFIGURATION DESCRIPTION
 (RBY:9) OPEN AMES 87-707 (AS C7A - S3 - 19 LEFT VERTICAL
 (RBY:9) FLAPPED AMES 87-707 (AS C7A - S3 - 19 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

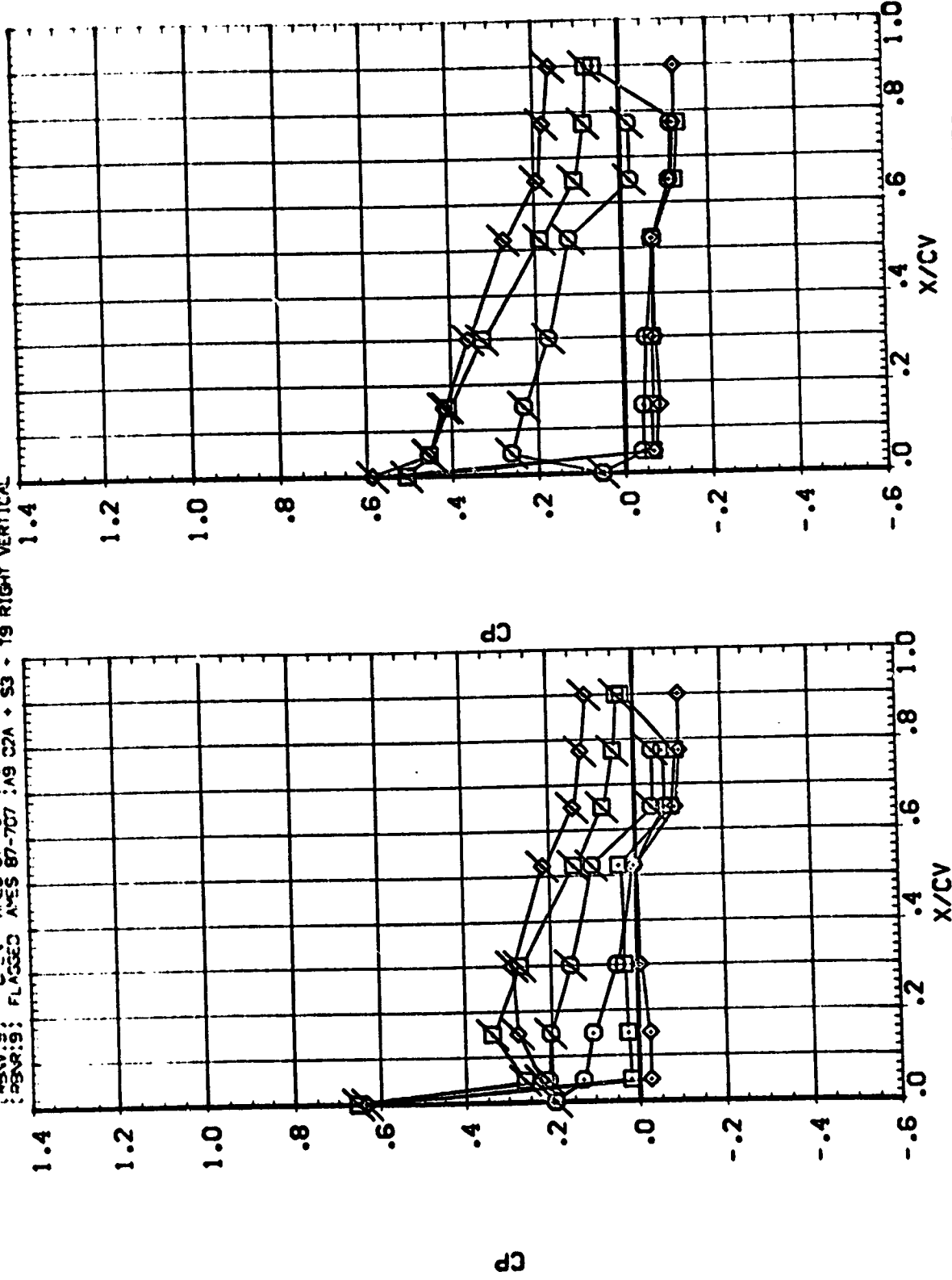
ALPHAT	.0001	ORBITAL	.500
RLOOR	-10.000	ELEVON	.000
RJDFLR	.000		

SYMBOL Z/BV BETAT WACH

○	.158	4.380	2.999
○	.316	8.710	
◇	.600		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

RBV19	OPEN	AVES 87-707	1A9	02A	53	19 LEFT VERTICAL
RBV19	FLAGGED	AVES 87-707	1A9	02A	53	19 RIGHT VERTICAL

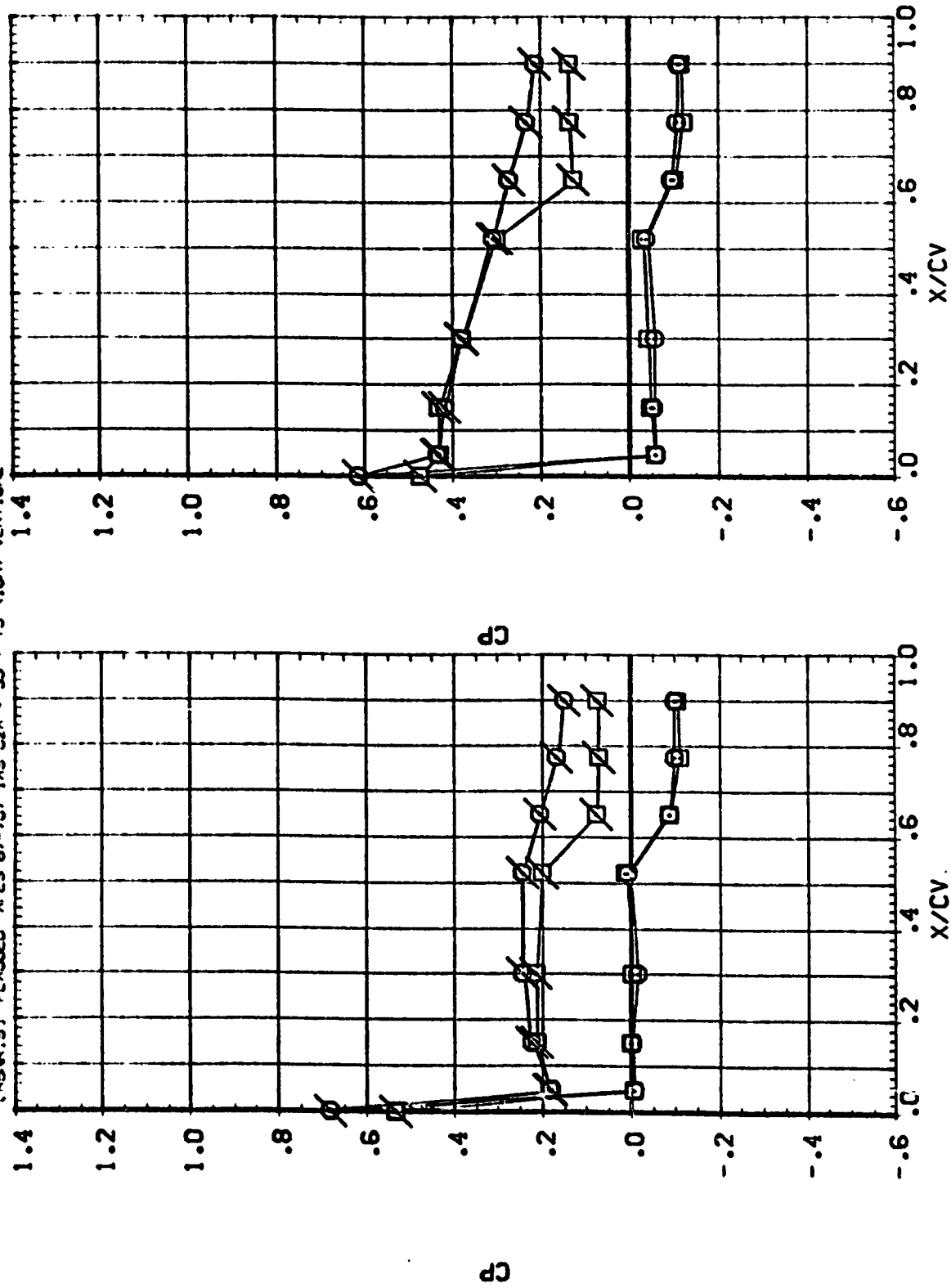


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES
 ALPHA* .000
 RODER .000
 RODELR .000
 .500
 .000

SWBC Z/EV BETAT MACH
 .84C 4.38C 2.999
 .975 8.71C

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBNV:9) OPEN A/C 87-707 1/8 C2A * S3 * 19 LEFT VERTICAL
 (RBNV:9) FLAGGED A/C 87-707 1/8 C2A * S3 * 19 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL
O
□
◇

Z/BV
.58
.316
.600

BETA°
-4.34C
.060

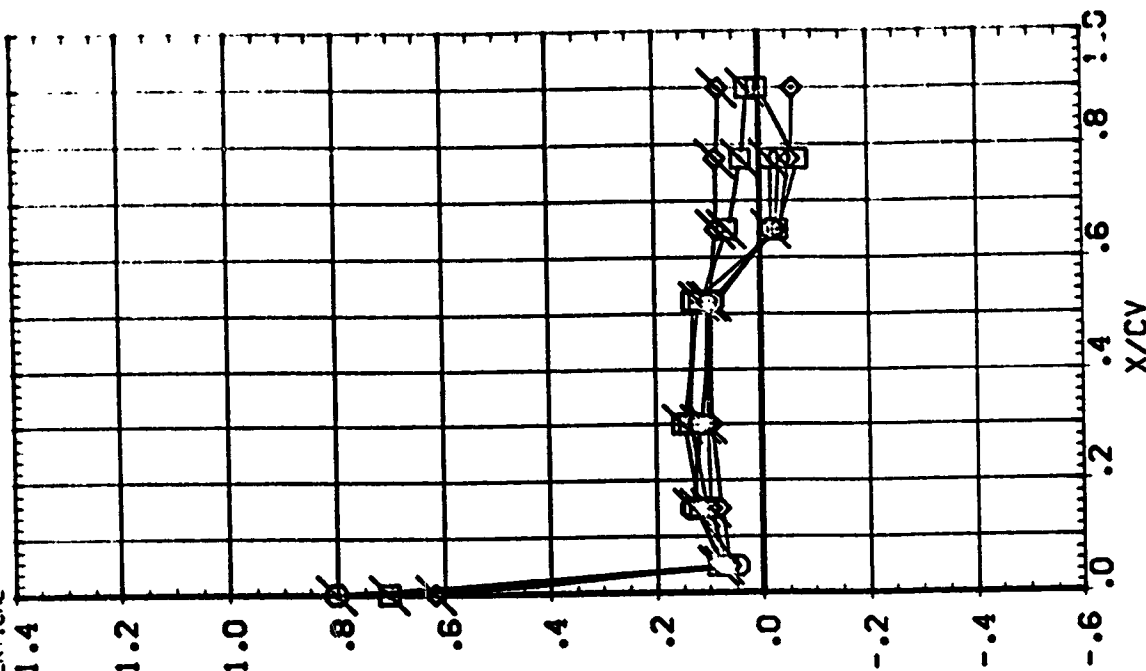
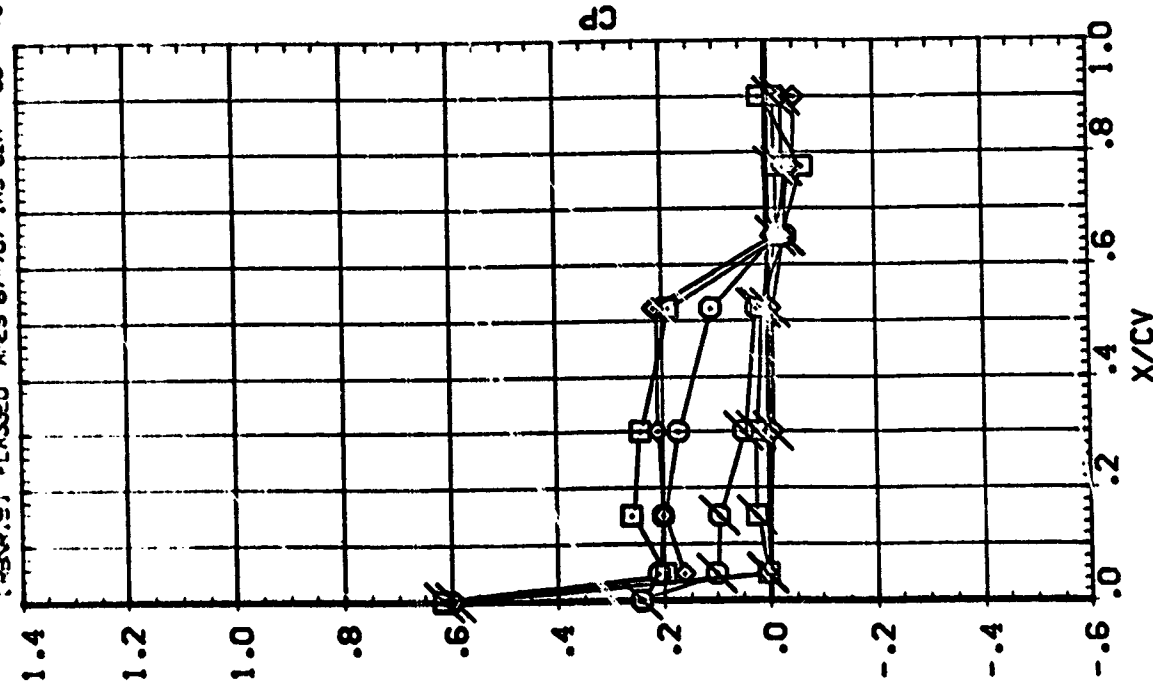
WACH
3.502

ALPHAT
RUDER
RUDFLR

PARAMETRIC VALUES
.000
-10.000
.000

.500
.000

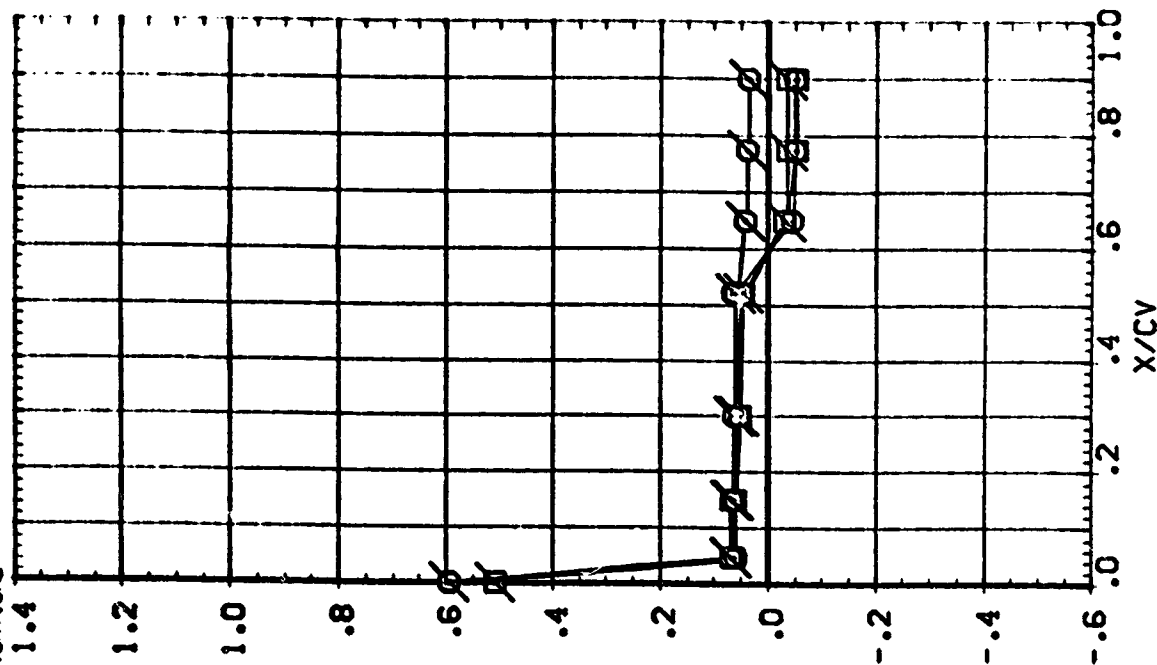
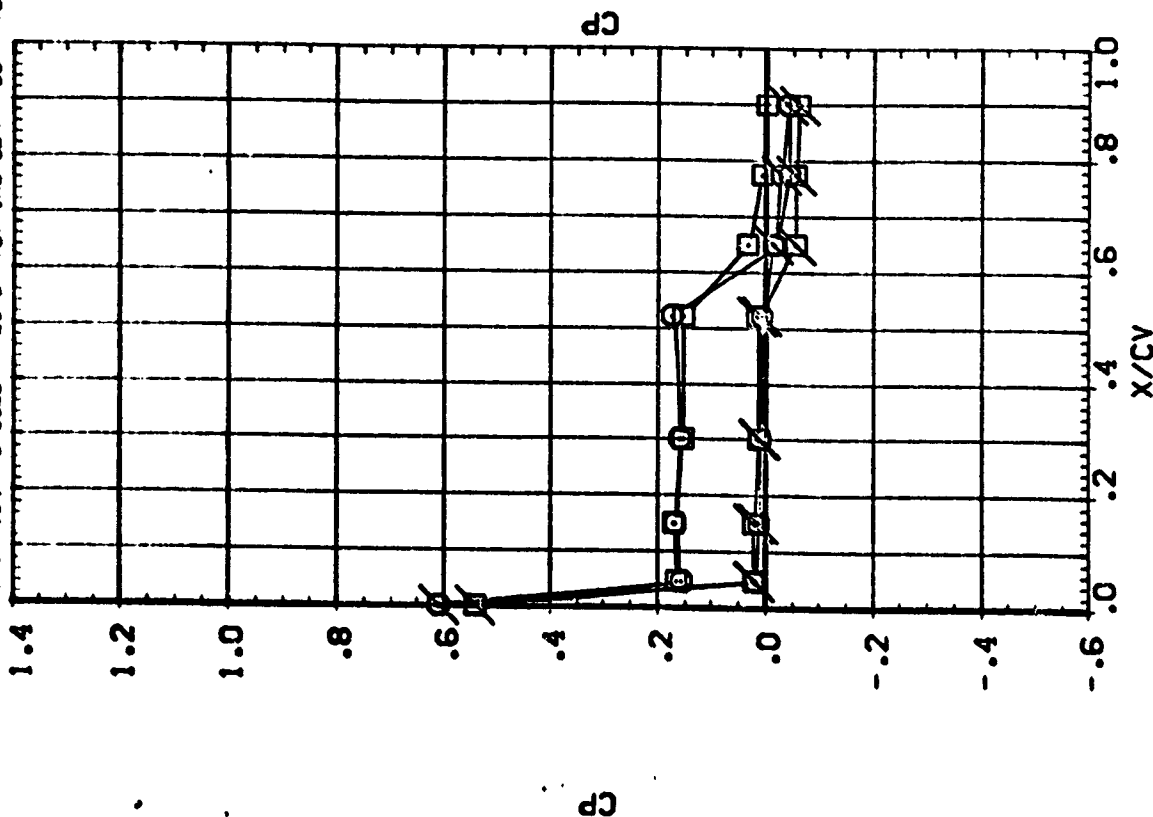
DATA SET SYMBOL CONFIGURATION DESCRIPTION
(REAR:9) OPEN AYES 87-707 IAS C2A + S3 : T9 LEFT VERTICAL
(REAR:8) FLAGGED AYES 87-707 IAS C2A + S3 : T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL Z/BV BETAT W/C-
 .040 .925 -4.340 3.502
 []

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 [RBNV:9] OPEN AXES 87-757 [A9 C2A + S3 + 19 LEFT VERTICAL
 [RBNV:9] FLAGGED AXES 87-757 [A9 C2A + S3 + 19 RIGHT VERTICAL



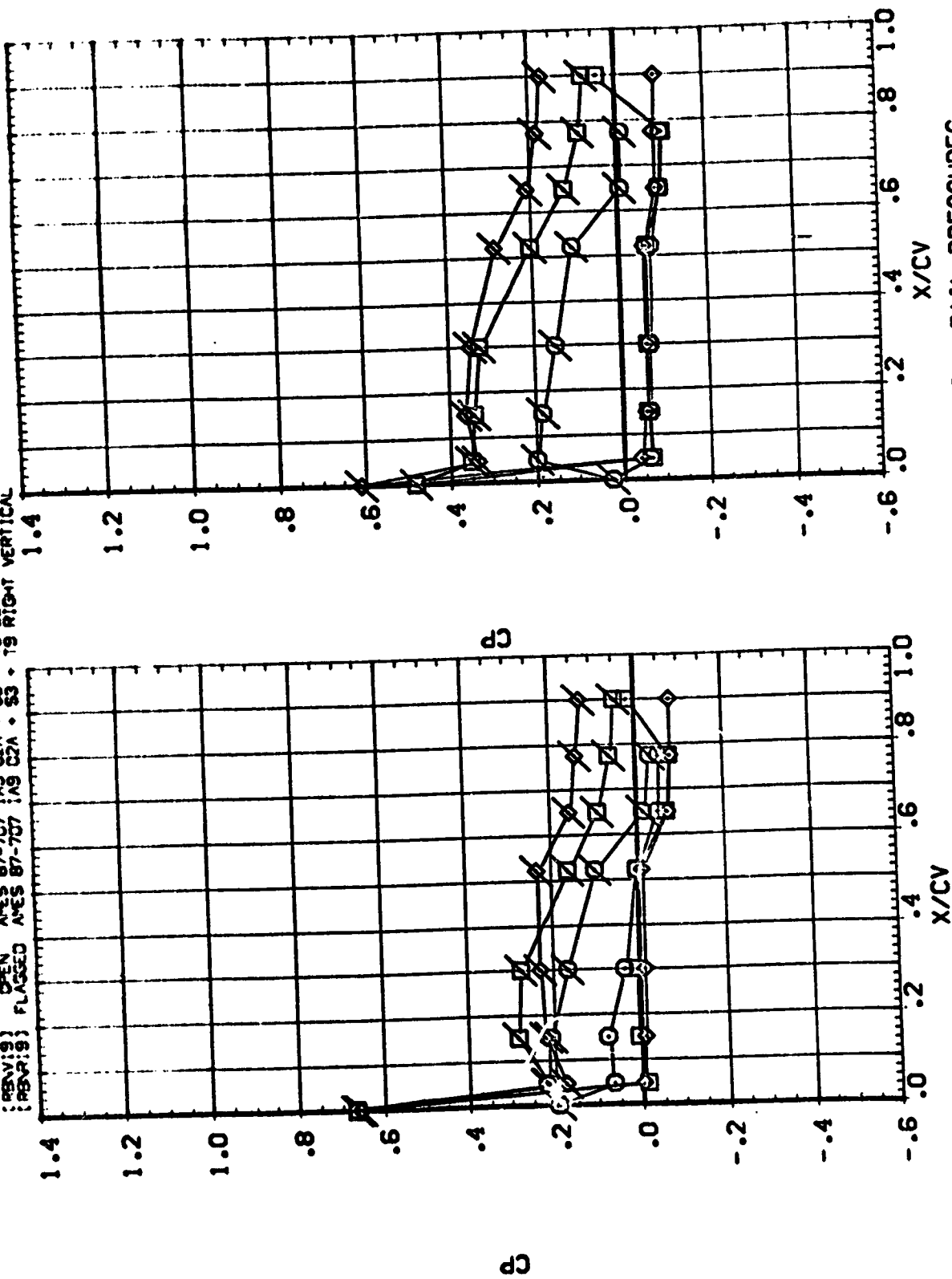
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL Z/BY .158 .316 .600

BETAT 4.460 8.860
MACH 3.502

PARAMETRIC VALUES
ALPHAT .000 999.0
RUDDER -10.000 ELEVON .000
RUDDLR .000

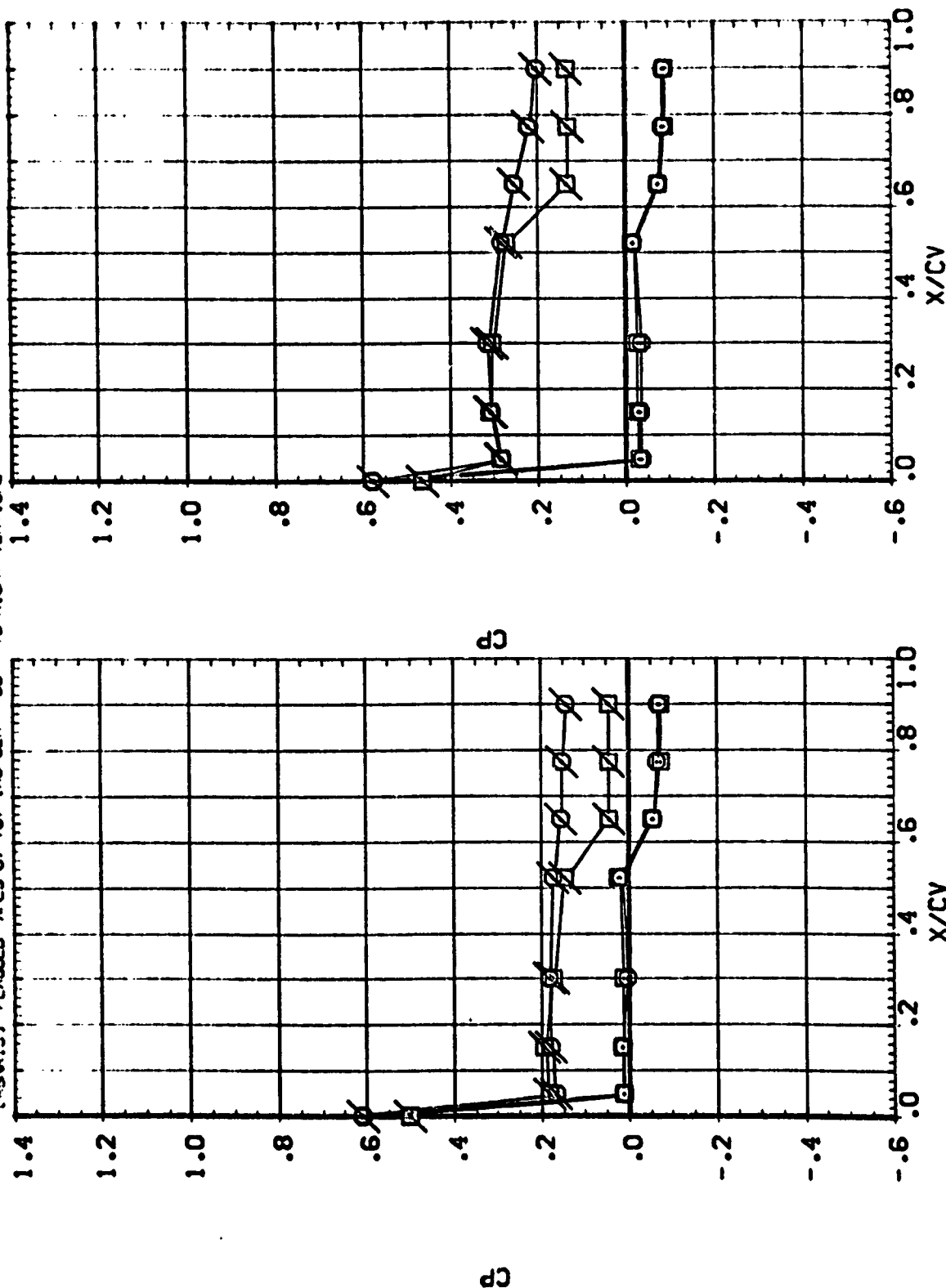
DATA SET SYMBOL CONFIGURATION DESCRIPTION
:REV:9: OPEN ANES 87-707 :AS C2A : S3 : T9 LEFT VERTICAL
:REV:9: FLAGGED ANES 87-707 :AS C2A : S3 : T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL Z/BV BETA² WAC² ALPHAT² C99:VC ELEVON² RADFLR²

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (PBNV:IS) OPEN APES 87-707 (AS C2A + S3 + T9 LEFT VERTICAL
 (PBNV:IS) FLAGGED APES 87-707 (AS C2A + S3 + T9 RIGHT VERTICAL

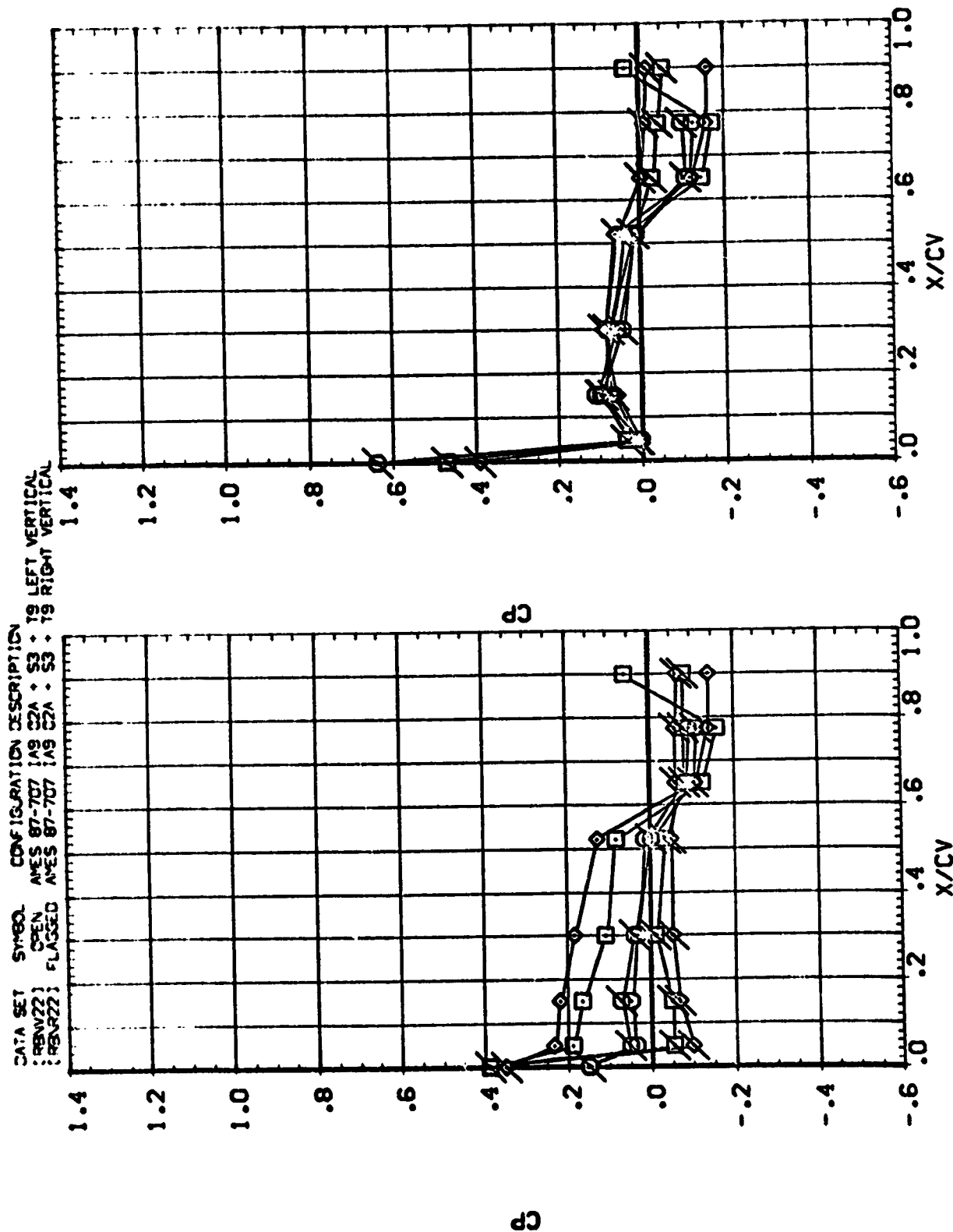


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

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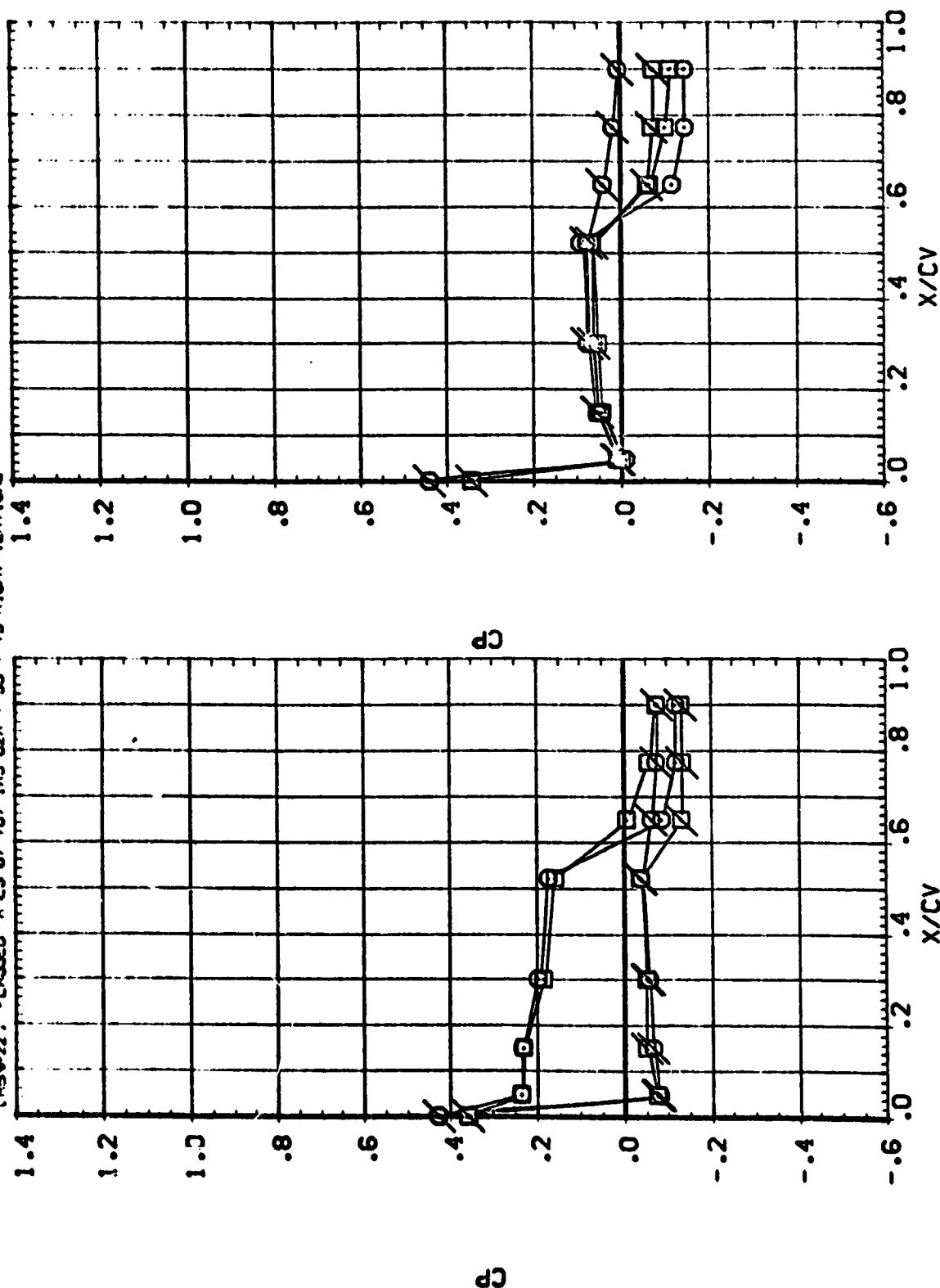
SYMBOL 2/3/4 BETAT MACH
 .58 -4.150 2.499
 .316 .060
 .600

PARAMETRIC VALUES
 ALPHA 8.000 999.000
 RUDDER -10.000 ELEVON .000
 RUDDLR .000



SYMBOL	Z/B	BEAT	MACH	PARAMETRIC VALUES
□	.84C	-4.50	2.499	ALPHA: 0.000
□	.975	.080		ROD: -10.000
				ELEV: .000
				R.OFLR: .500

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 [RBNV22] OPEN ASES 87-707 IAS C2A : S3 : 19 LEFT VERTICAL
 [RBNV22] FLASSED ASES 87-707 IAS C2A : S3 : 19 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

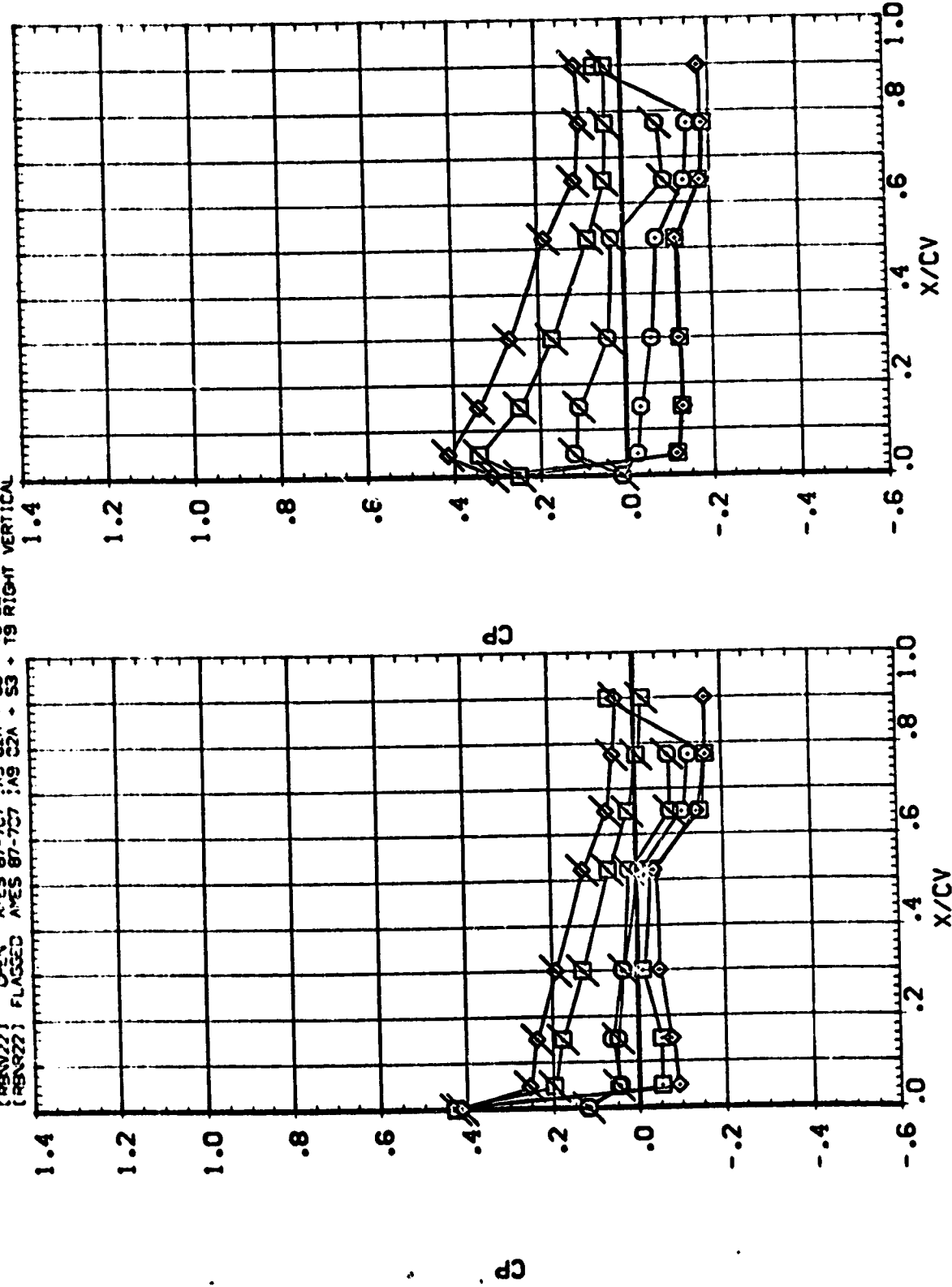
ALPHAT	8.000	ORBITAL	.500
RJ00R	-10.000	ELEVON	.000
RJ0FLR	.000		

SYMBOL

Z/BV	BETAT	MACH
.158	4.330	7.499
.316	5.600	
.600		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

[RBNV22]	OPEN	AMES 87-707	1A9 C2A	S3	T9 LEFT VERTICAL
[RBNV22]	FLAGGED	AMES 87-707	1A9 C2A	S3	T9 RIGHT VERTICAL



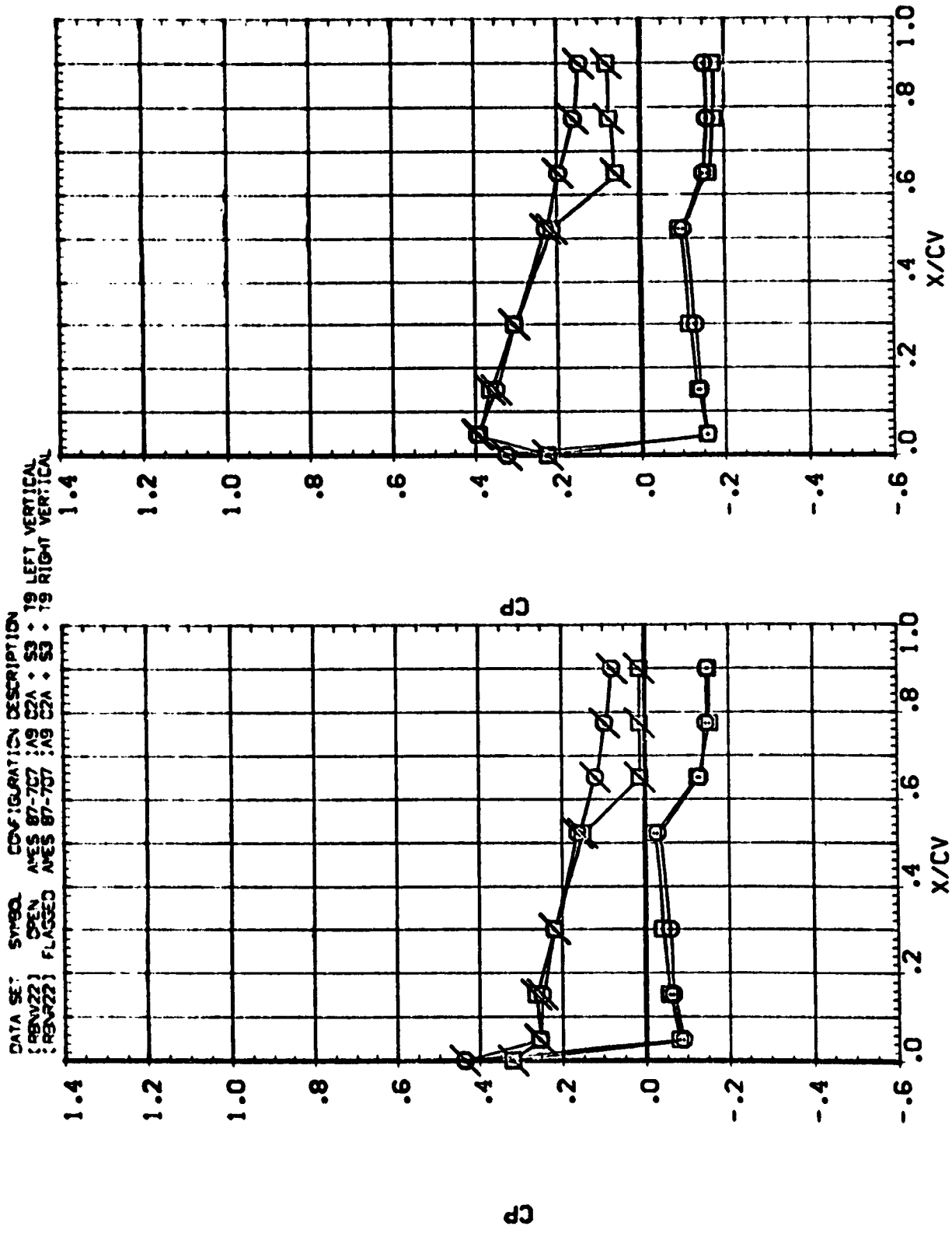
SYMC. Z/B: .840
.925

BETAT 4.300
8.600

WAC 2.499

PARAMETRIC VALUES
ALPHAT 8.000
RJOER -10.000
RJOE_R .000

ORBINC .500
ELEVON .000



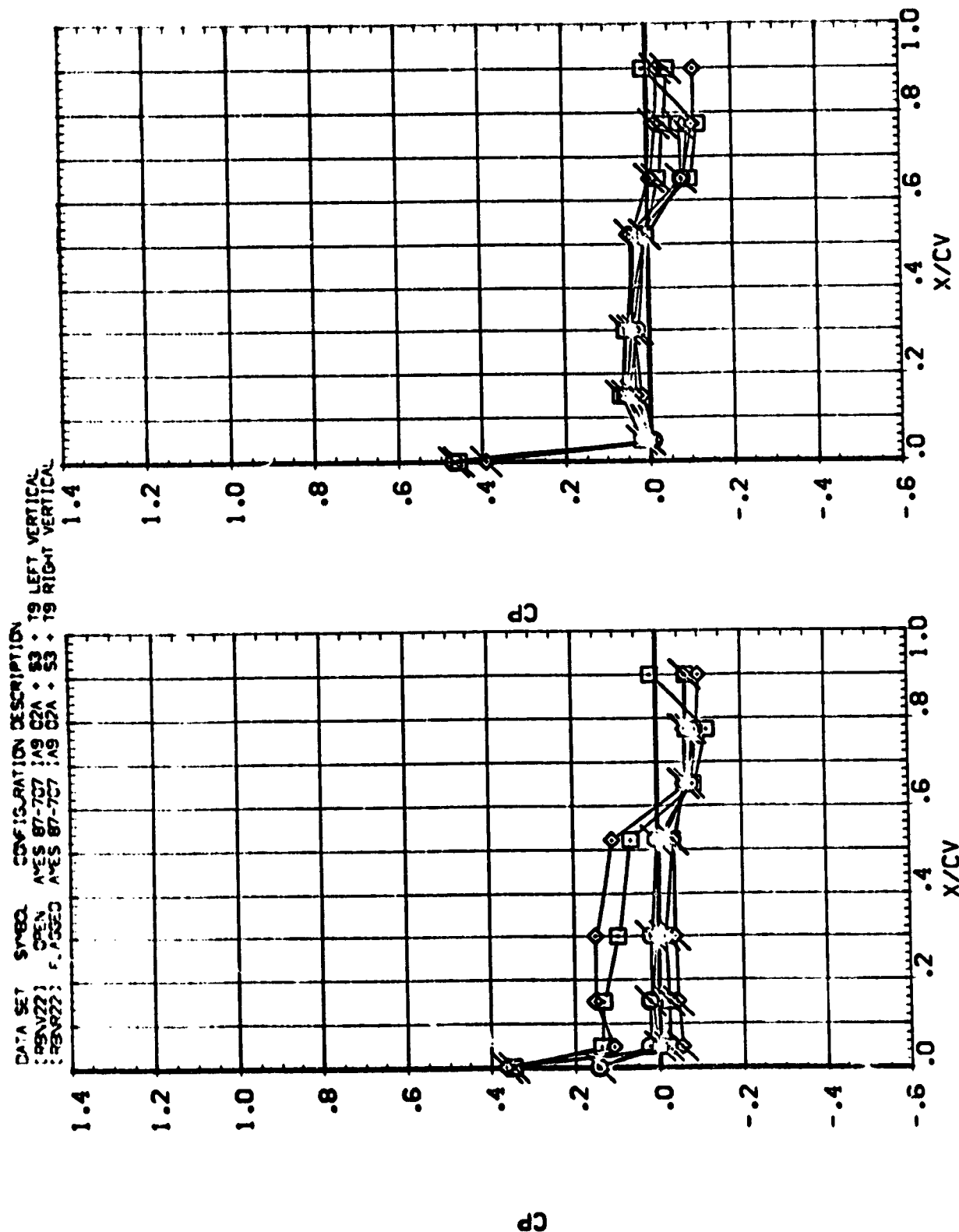
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

ALPHA	8.000	ORIGIN	.500
RJODER	-10.000	ELEVON	.300
RJOF_R	.000		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

RENV22	OPEN	AYES 87-707	AY9	Q2A	S3	: TS LEFT VERTICAL
RENR22	PLACED	AYES 87-707	AY9	Q2A	S3	: TS RIGHT VERTICAL



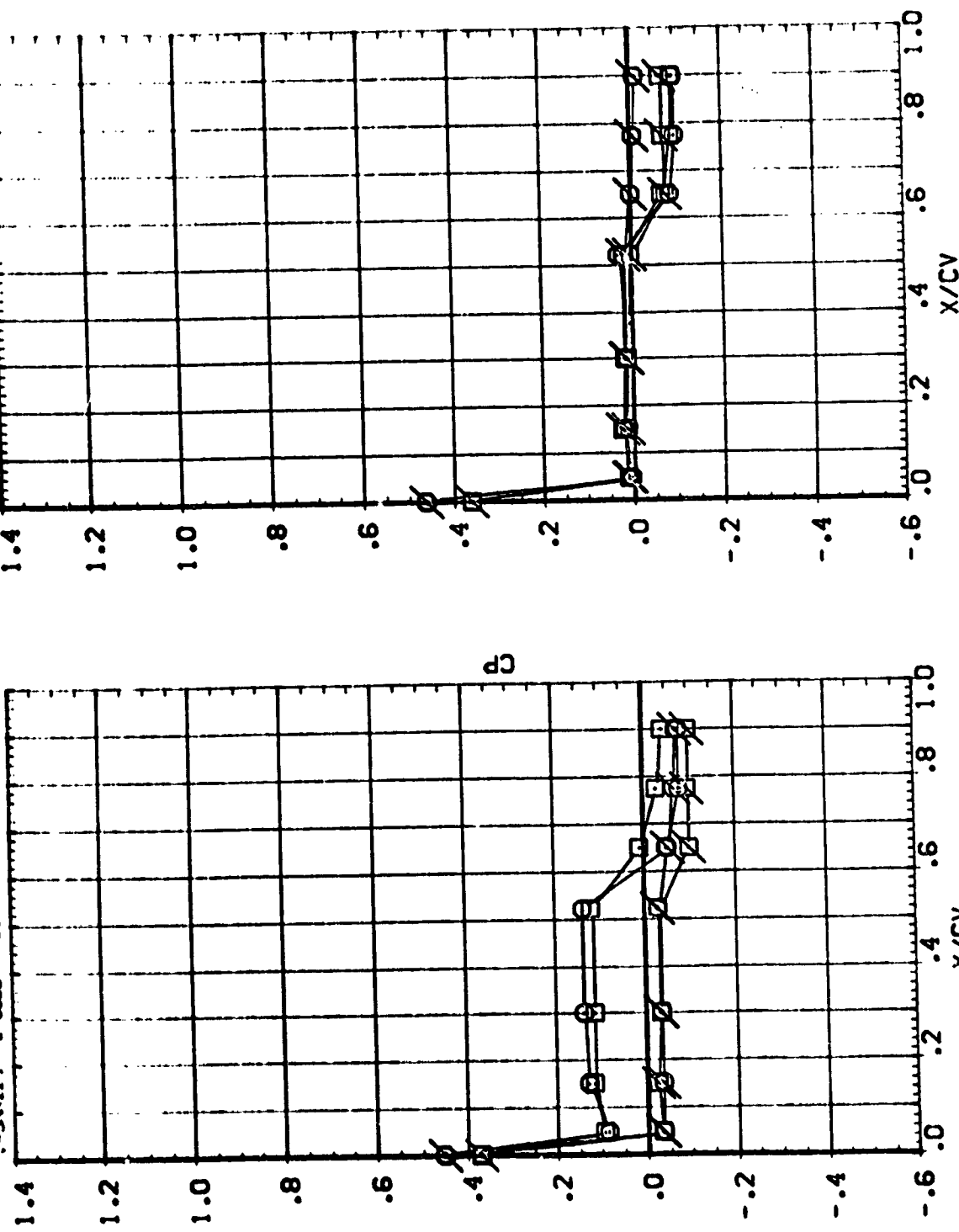
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

ALPHAT	0.000	598.1°C	.500
RUDER	-10.000	ELEVON	.000
RUDLR			.000

DATA SET: SYMBOL CONFIGURATION DESCRIPTION

: 25N177	: OPEN	: AXES 87-757	: 1A9	: C2A	: 53	: 19	: LEFT	: VERTICAL
: 25N177	: CLOSED	: AXES 87-757	: 1A9	: C2A	: 53	: 19	: RIGHT	: VERTICAL



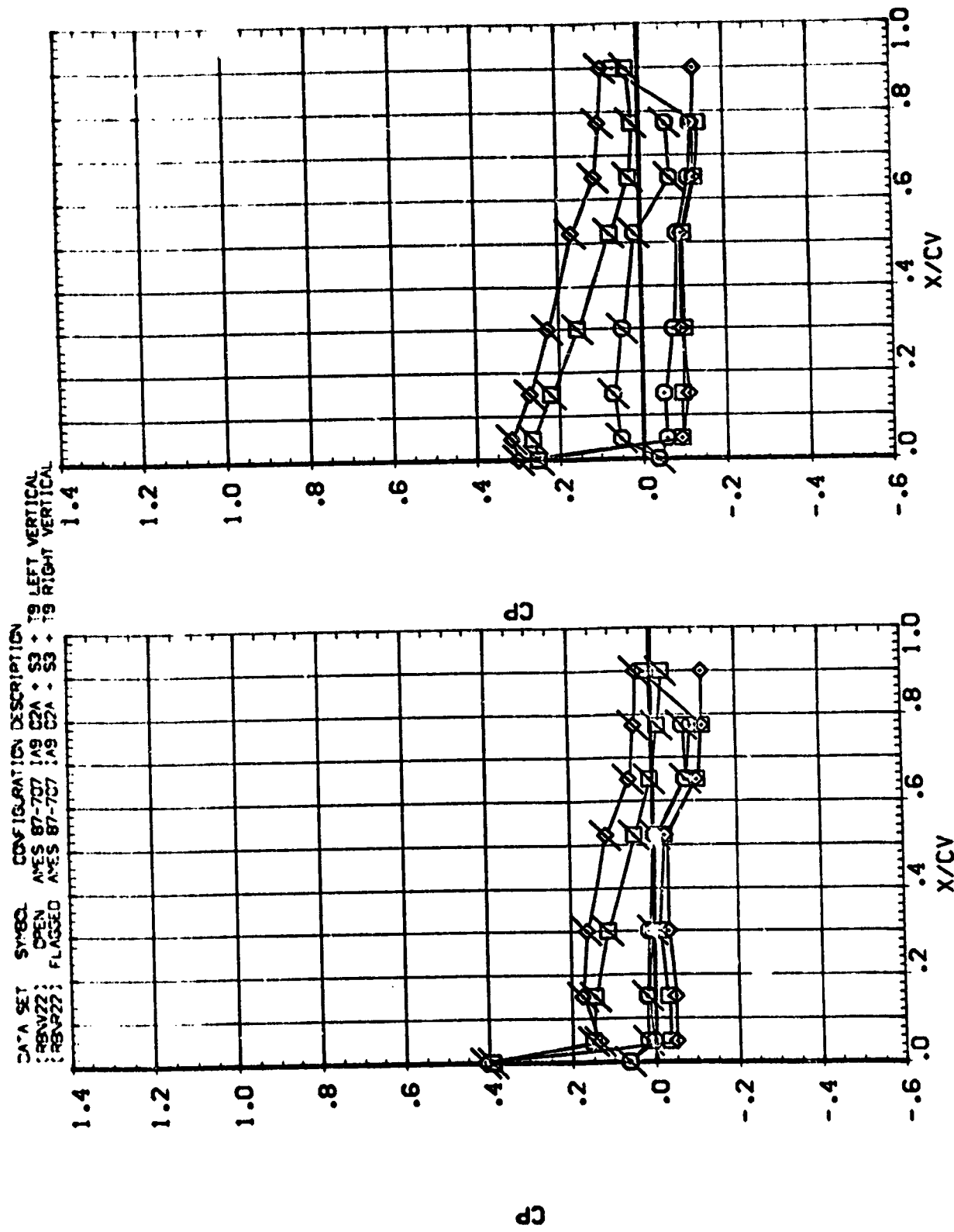
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL Z/BV BETA* MACH PARAMETRIC VALUES

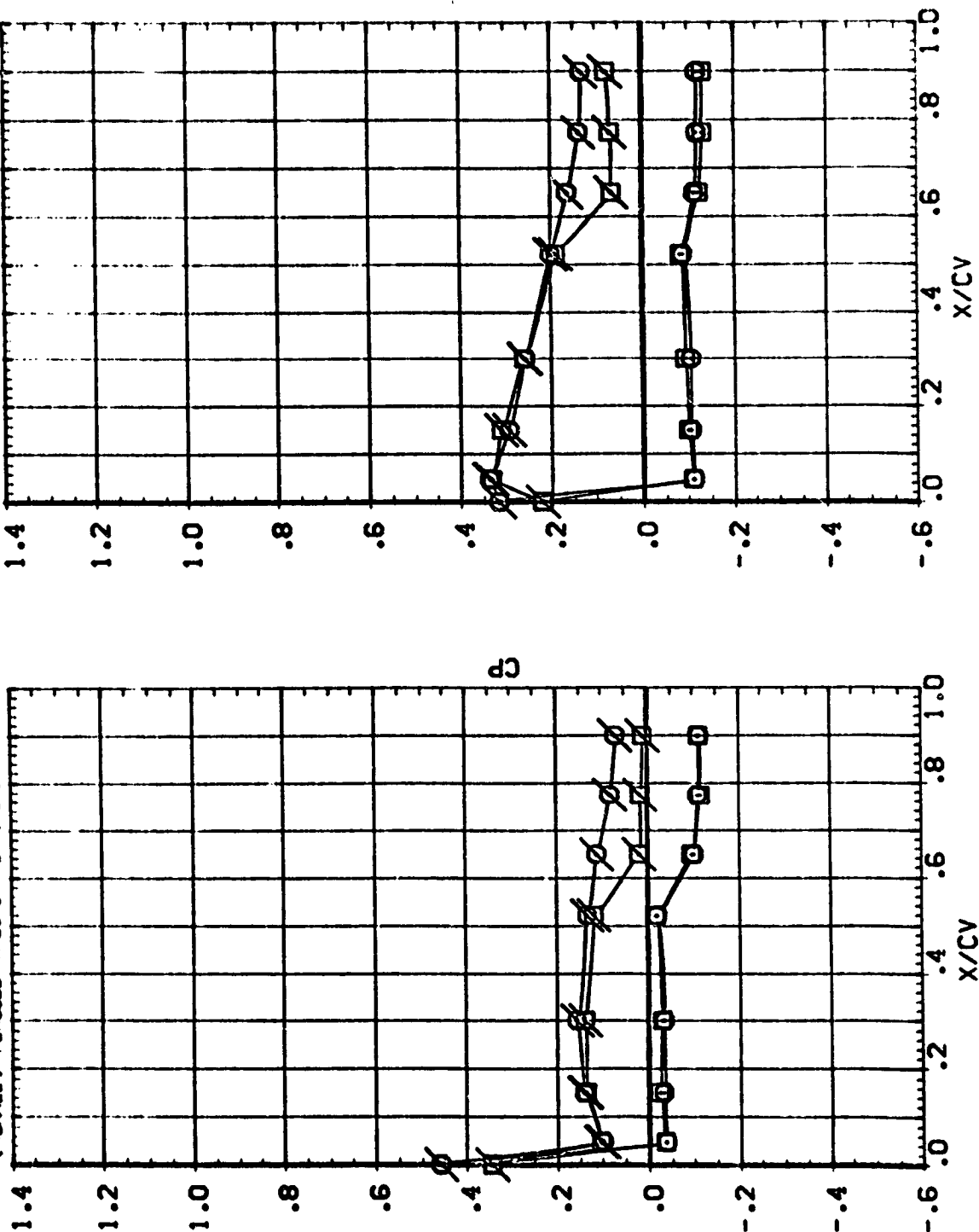
○ .158 4.400 7.999 ALPHAT 8.000 099.0° .500

○ .316 8.750 RUDER -10.000 ELEV .000

◇ .600 RUDLR .000



DATA SET SYMBOL CONFIGURATION DESCRIPTION
:RSV22: OPEN AYES 87-707 :AS C2A : S3 : 19 LEFT VERTICAL
:RSV22: FLAGGED AYES 87-707 :AS C2A : S3 : 19 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL 2/91
:58
.316
.602

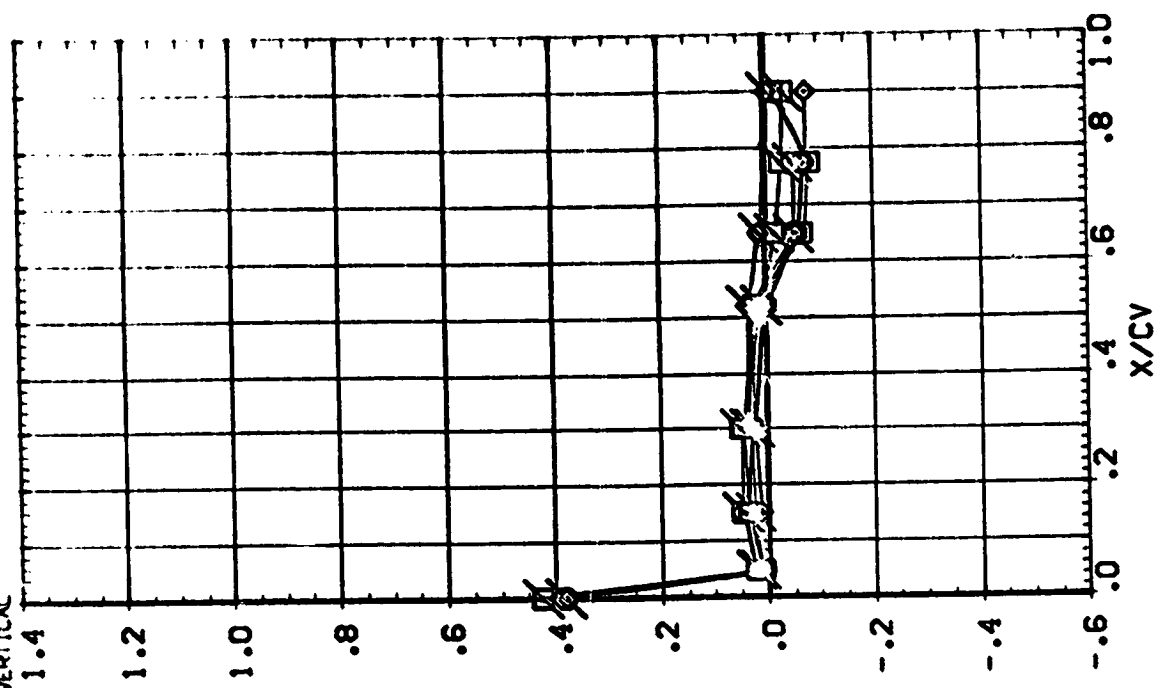
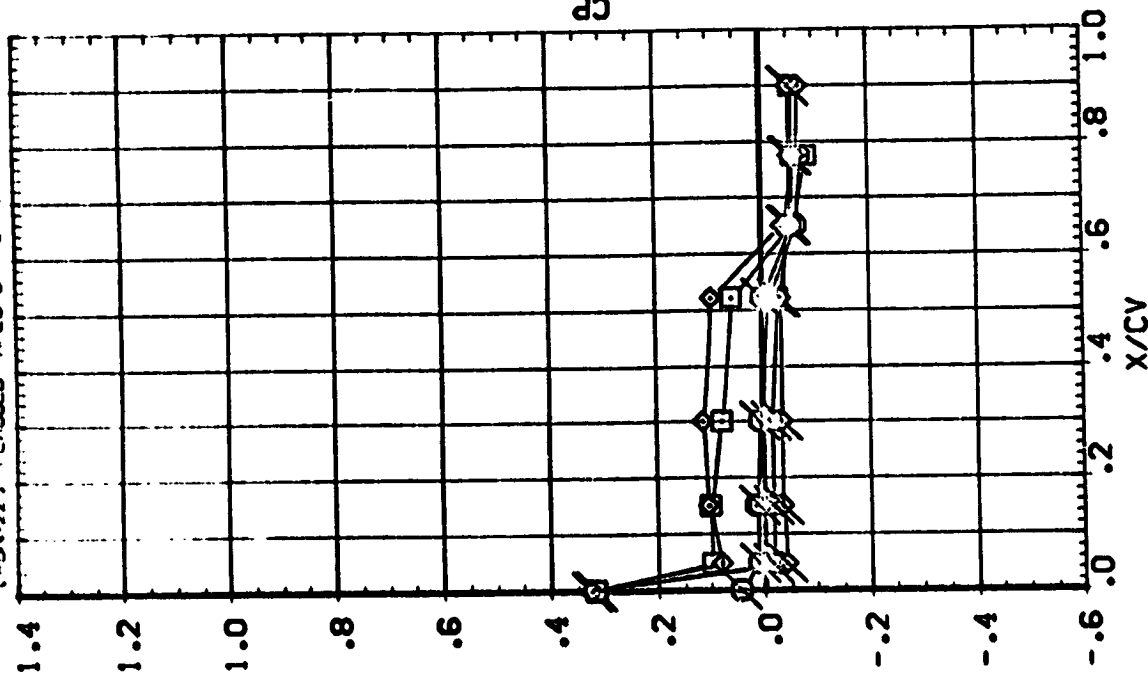
BETA
-4.310
.562

MACH
3.502

PARAMETRIC VALUES
ALPHA 8.000
RUDDER -10.000
RUFLR .000

.500
.000

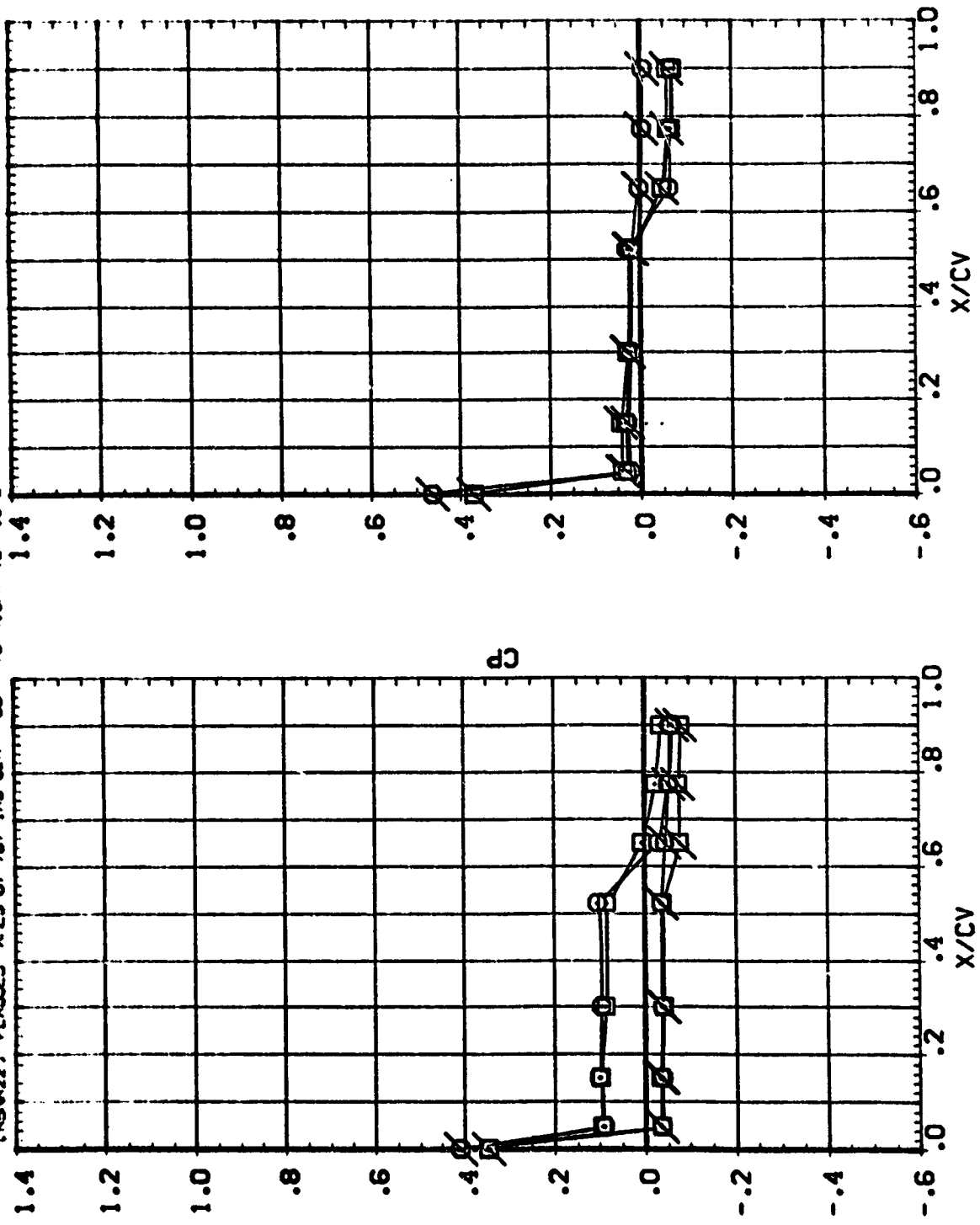
DATA SET SYMBOL CONFIGURATION DESCRIPTION
:RBNV72 OPEN ANES 87-707 IAS C2A : S3 : 19 LEFT VERTICAL
:RBNV72 FLAGGED ANES 87-707 IAS C2A : S3 : 19 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

WUWU 31.11.11 11:00
 2007.11.11 11:00

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBN22) OPEN ASES 87-707 :A9 C2A : S3 : T9 LEFT VERTICAL
 (RBN22) FLAGGED ASES 87-707 :A9 C2A : S3 : T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

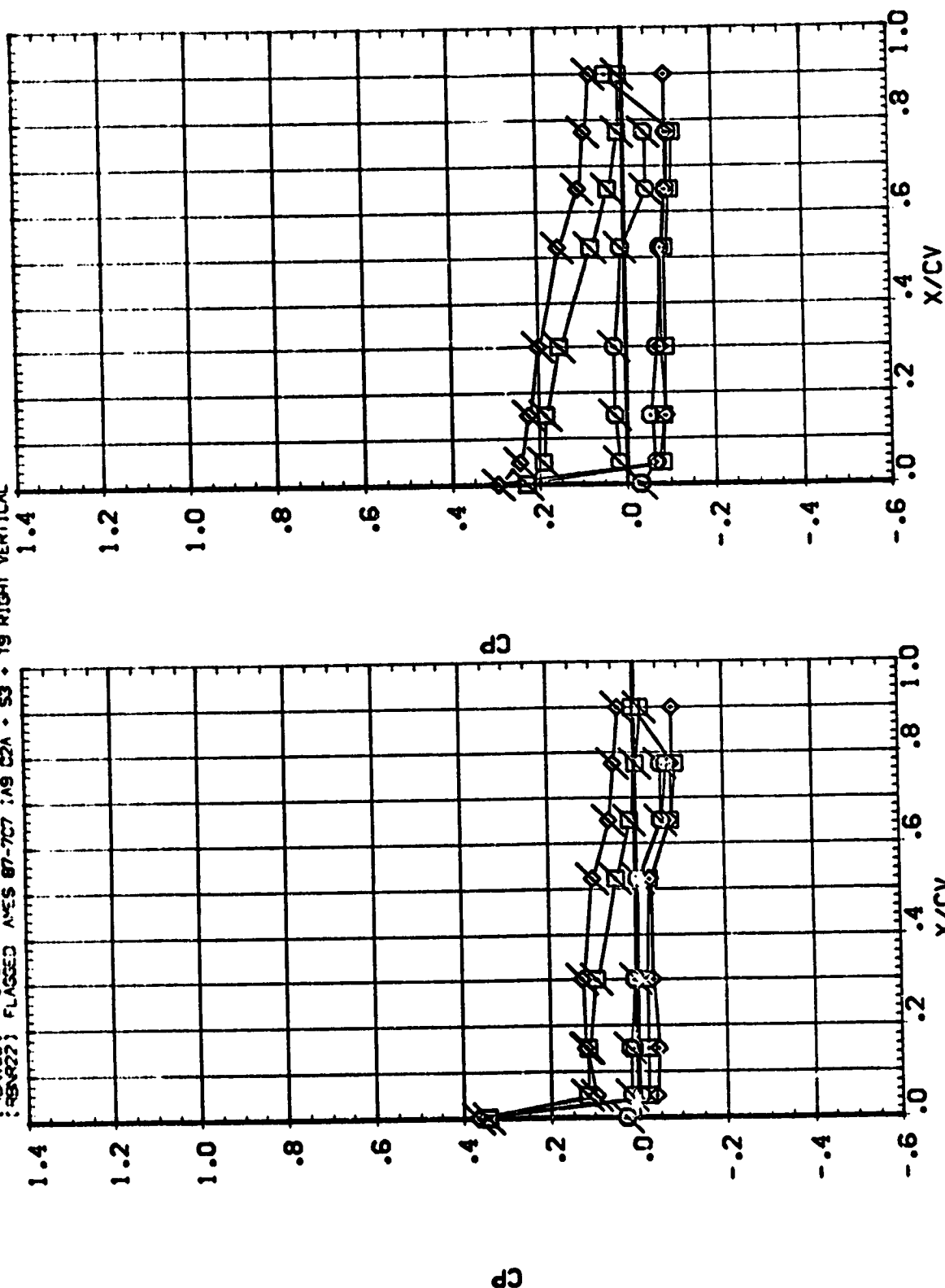
ALPHA	8.000	DEGREE	.500
RUDDER	-10.000	ELEVATION	.000
RUDDER	.000		

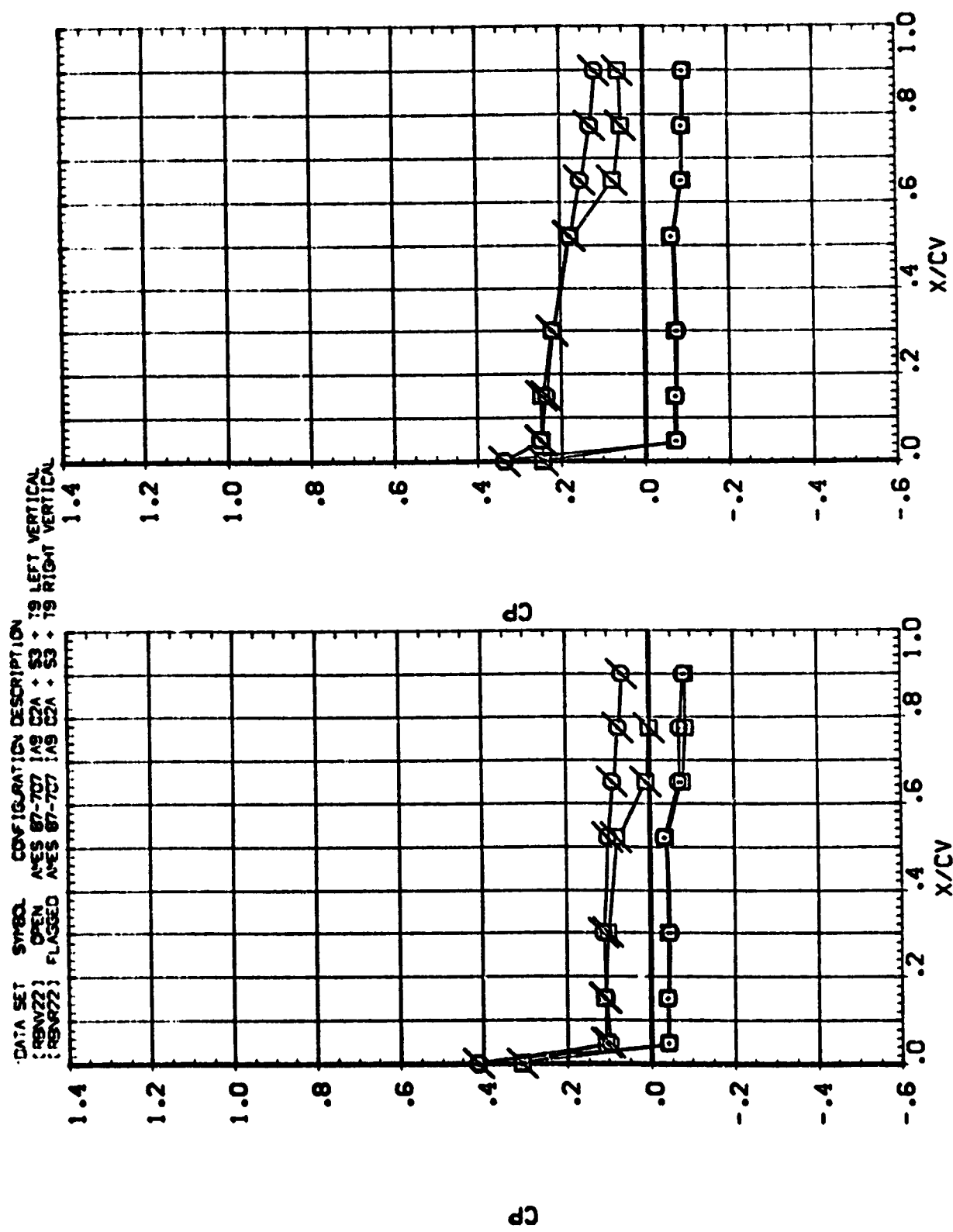
SYMBOL Z/BV BETAT MACH

○	.158	4.480	3.502
□	.316	8.910	
◇	.600		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

[RBNV22]	OPEN	ANES 87-707	1A9 C2A + S3 + T9 LEFT VERTICAL
[RBNV22]	FLASSED	ANES 87-707	1A9 C2A + S3 + T9 RIGHT VERTICAL





CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

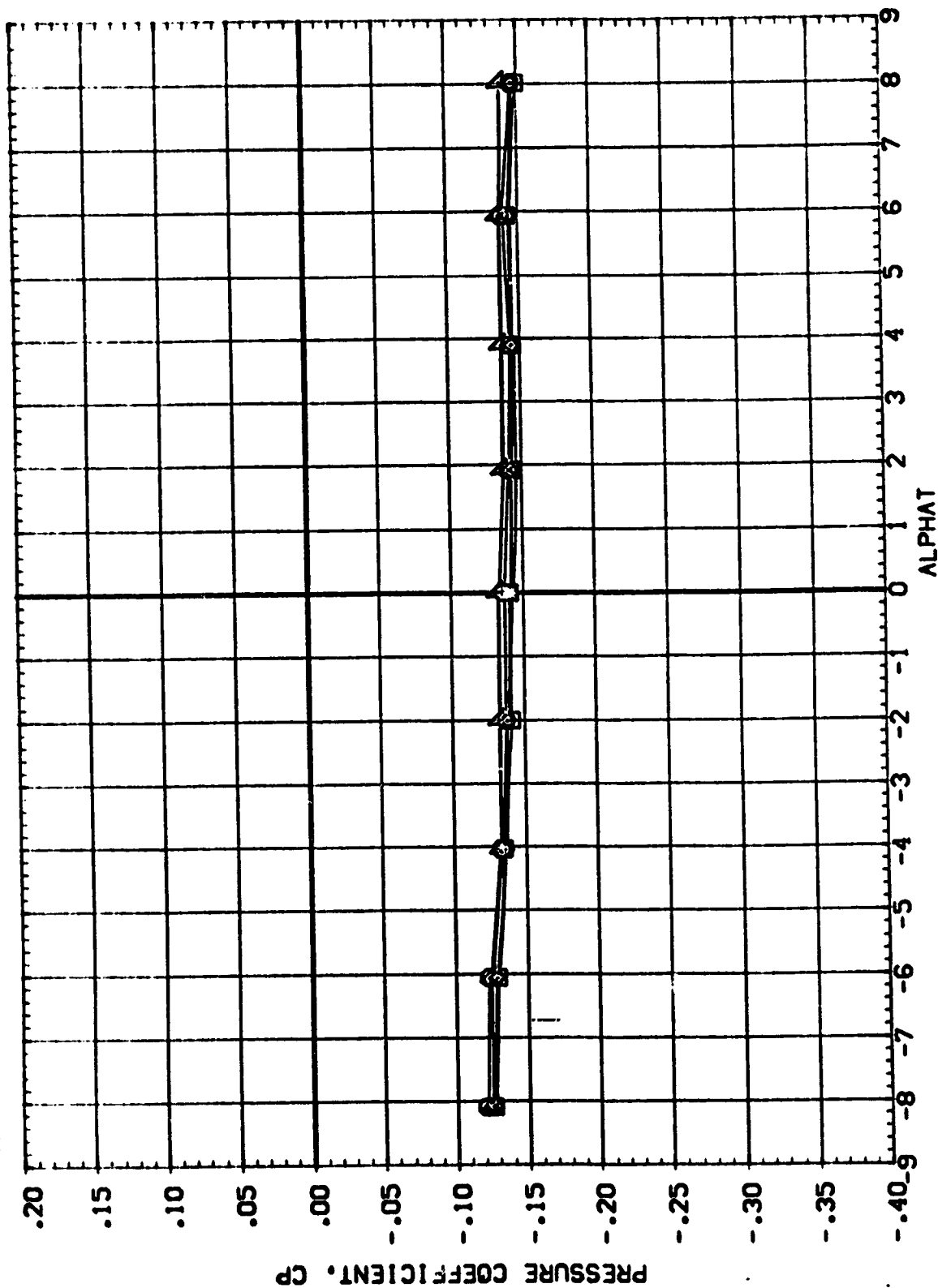
(P9NCO1)

AVES 87-707 :A9 C2A + S3 + 19 ORBITER BASE

SYMBOL
1.000
2.000
3.000
4.000
5.000

TAP NO A MAC- 2.498

PARAMETRIC VALUES
BETA' .000 ORBINC .000
RUDDER .000 ELEVON .000
RUDDLR .000

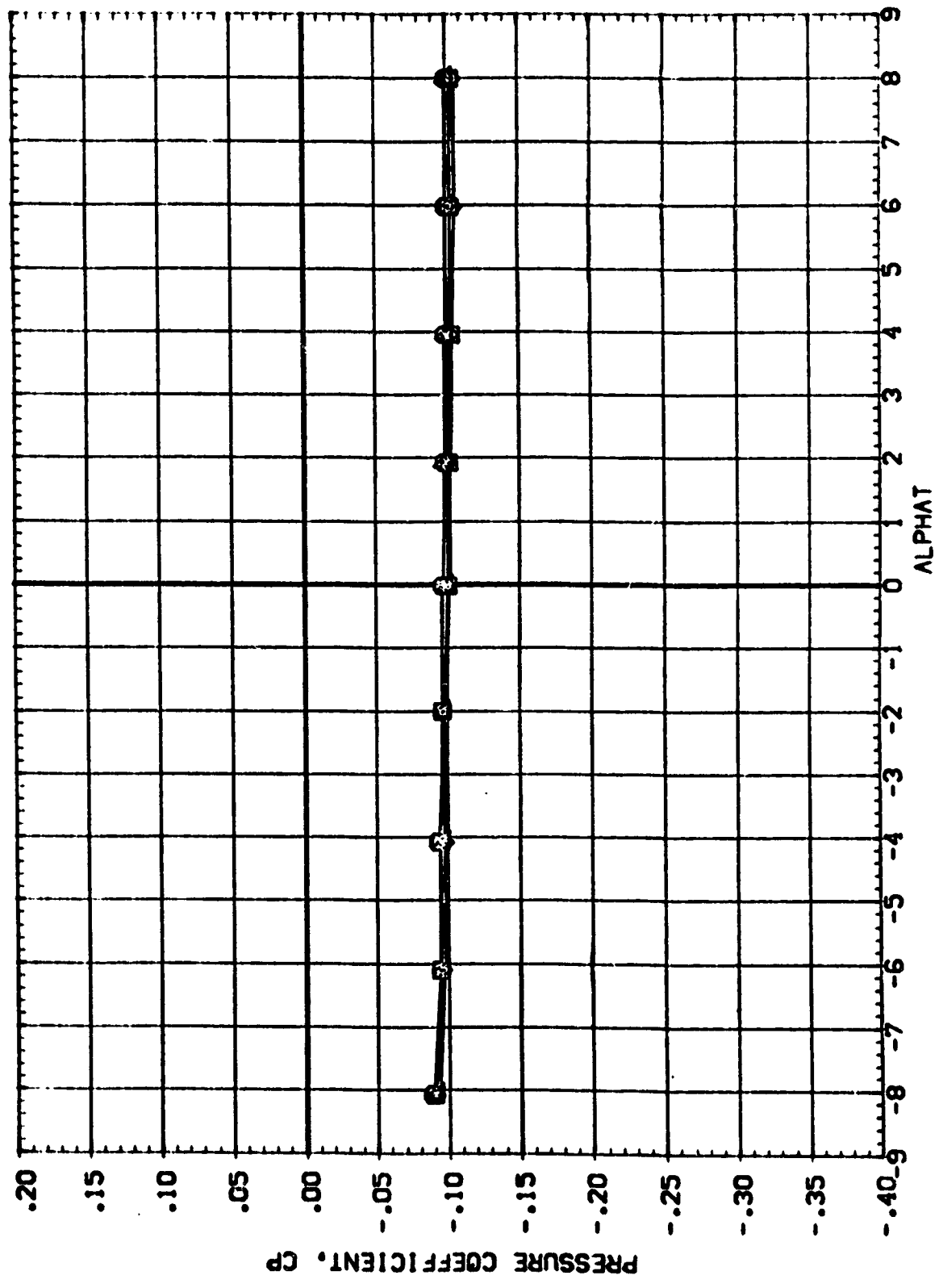


ORBITER BASE PRESSURES

SYSC
1.000
2.000
3.000
4.000
5.000

AP NO A MACW
1.000 .000 2.999
2.000
3.000
4.000
5.000

PARAMETRIC VALUES
BETAT .000 ORBINC .500
RLODR .000 ELEVON .000
RLOFLR .000



ORBITER BASE PRESSURES

(RBNC01)

AVES 87-7C7 :A9 02A + S3 + 19 ORBITER BASE

SYMBOL
□
◇
△
▽

AP NC
1.000
2.000
3.000
4.000
5.000

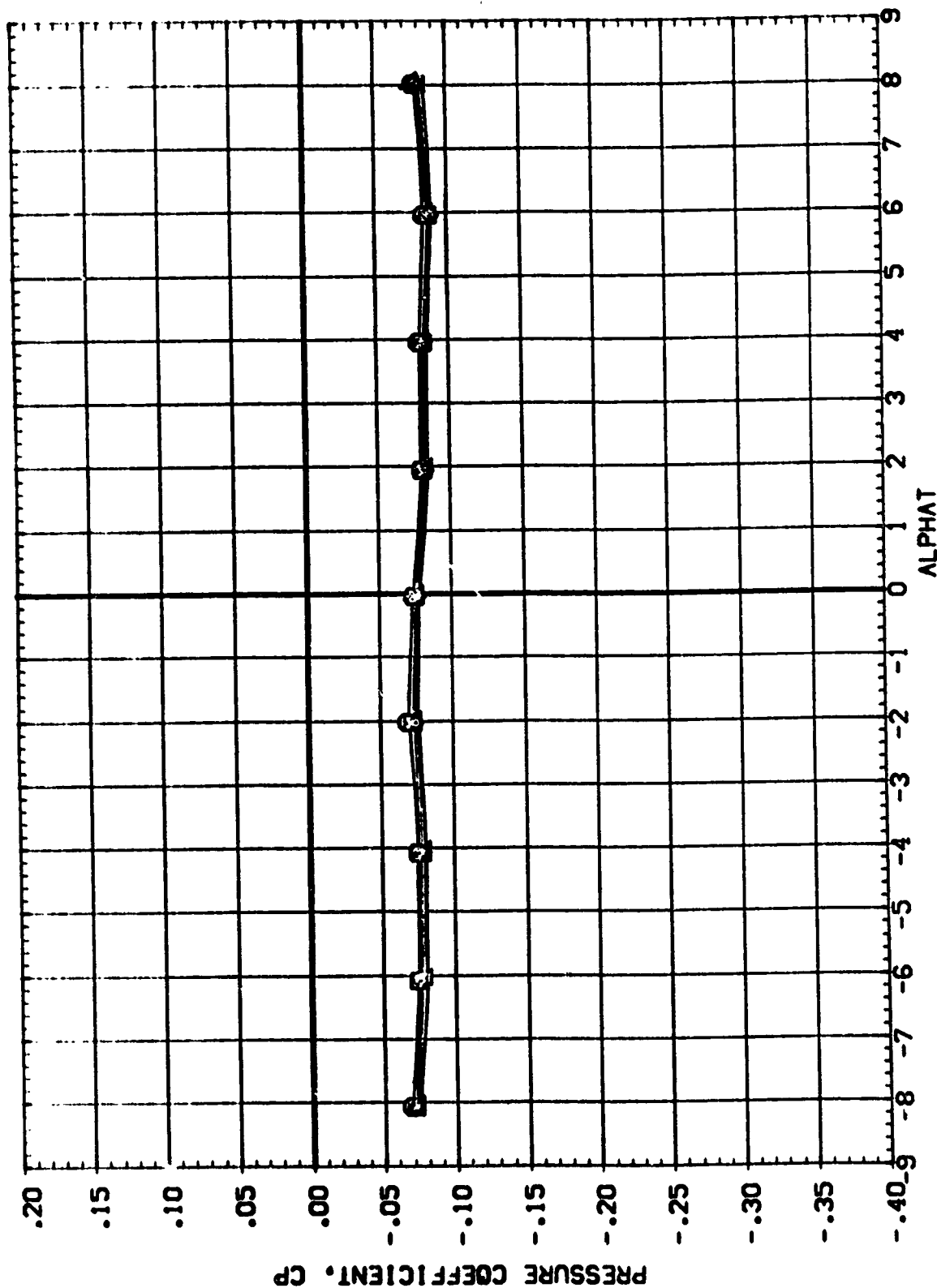
A
.000

WACH
3.502

PARAMETRIC VALUES
BETAT
RLODER
RLOFLR

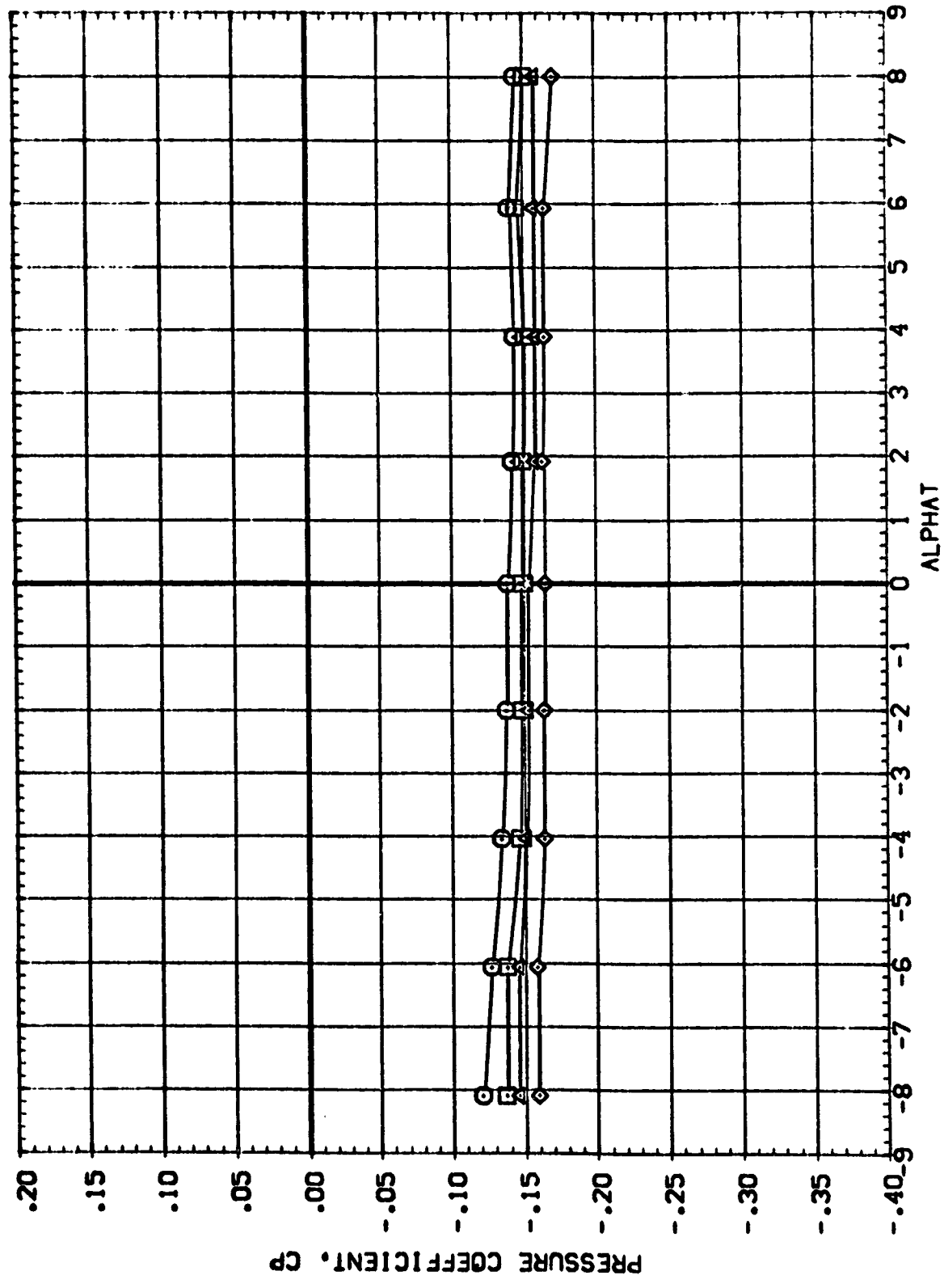
.500
.000
.000
.000

ORBIT NC
ELEVON



ORBITER BASE PRESSURES

SYMBOL	TAP NO	A	MACH	BETAT	PARAMETRIC VALUES
○	6.000	.000	2.498	RJDER	.000 ORBINC
□	7.000			RJFLR	.000 ELEVON
◇	8.000				
△	9.000				



ORBITER BASE PRESSURES

(RBNCO1)

AMES 87-7C7 :A9 C2A + S3 + 19 ORBITER BASE

SYMBOL

TAS NO

A

.000

MACH

2.999

6.000

7.000

8.000

9.000

BETAT

RLODR

RLOFLR

PARAMETRIC VALUES

.000

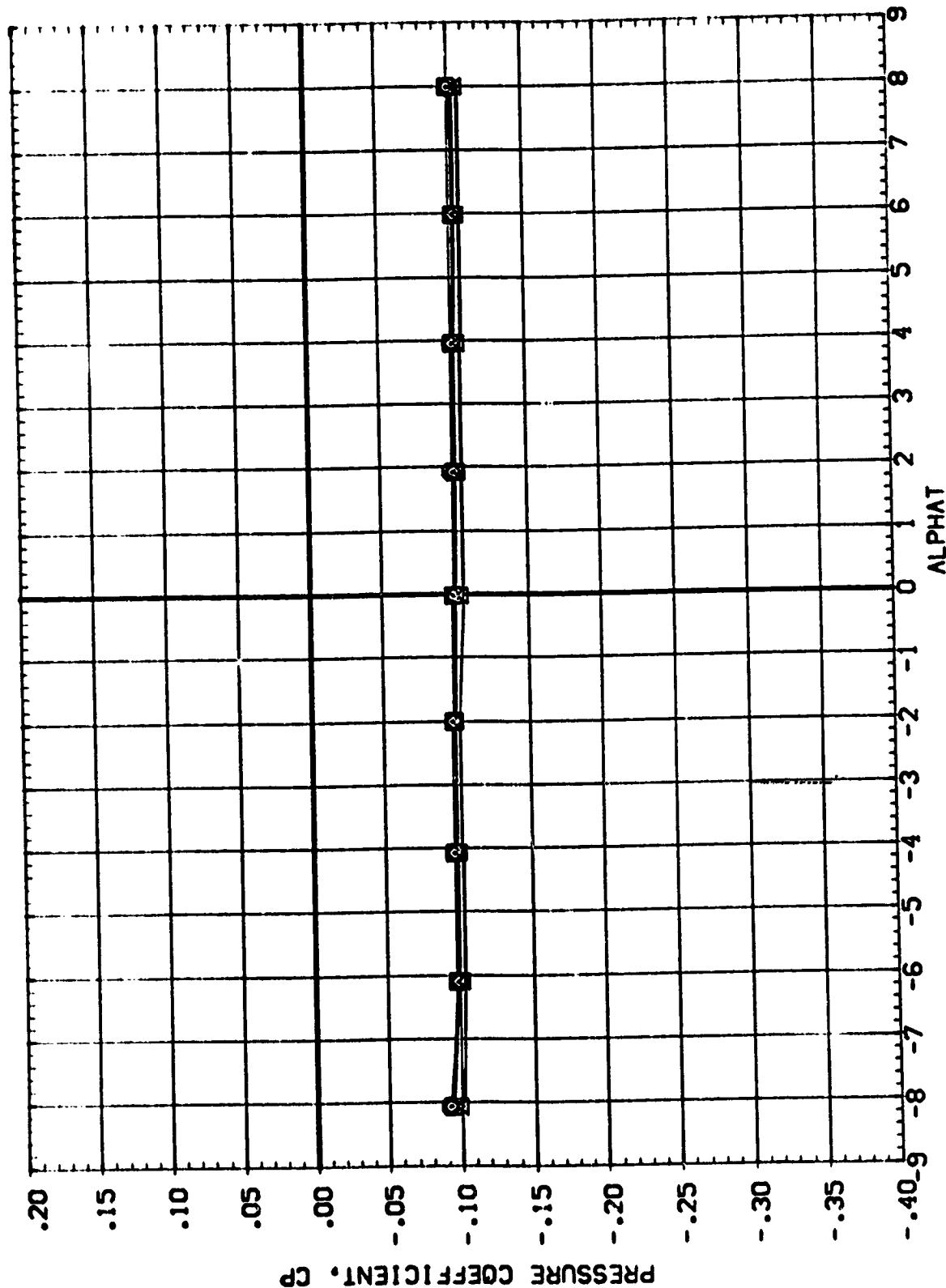
.000

.000

.000

.500

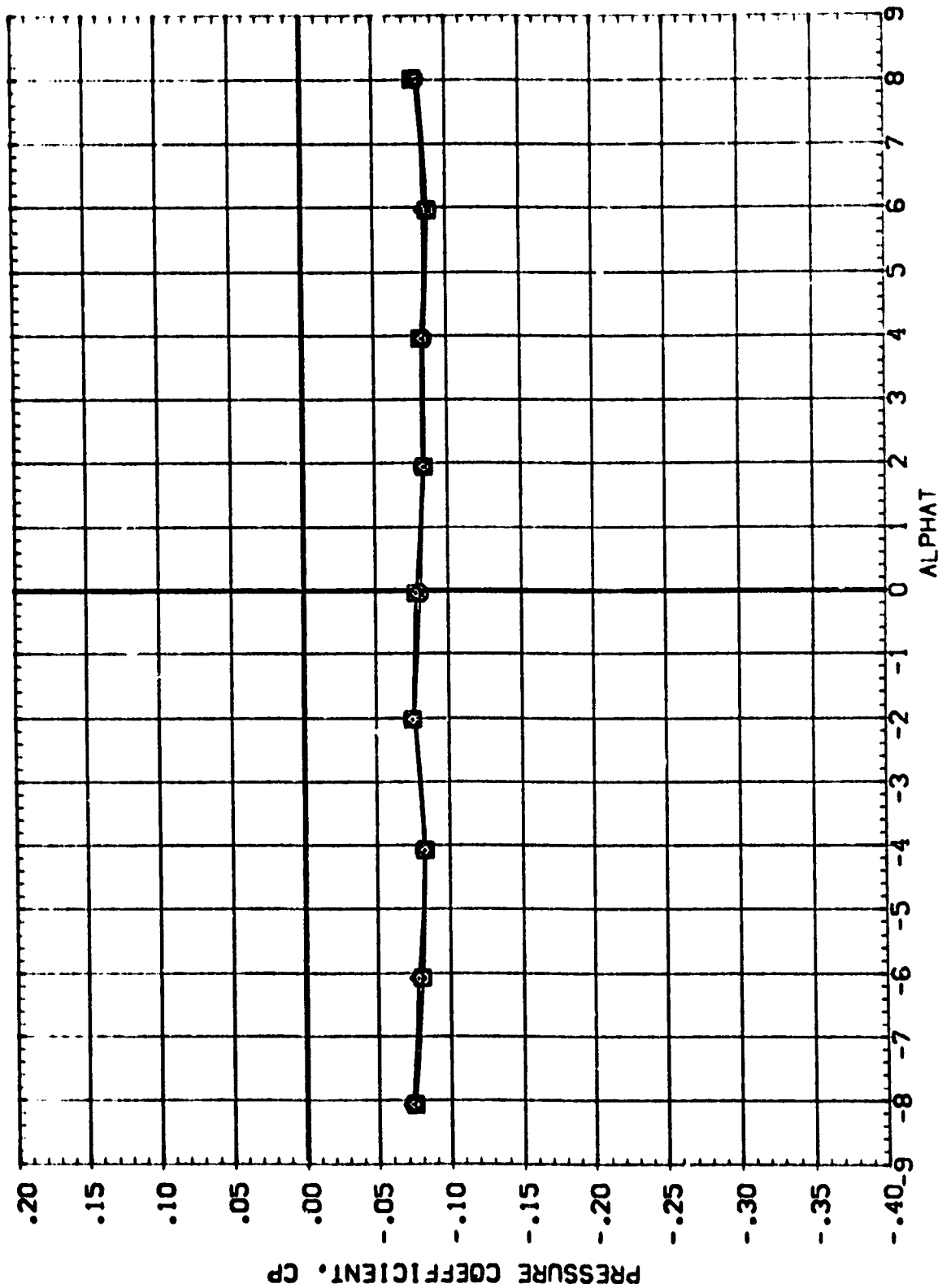
.000



ORBITER BASE PRESSURES

AVES 87-707 :A9 02A + S3 + T3 CRBITER BASE (RBNC01)

SVACC	AP VC	A	ACH	PARAMETRIC VALUES
6.000	.000	3.502	BETAT	.000
7.000			RLODER	.000
8.000			RLOFLR	.000
9.000				.000



ORBITER BASE PRESSURES

AVES 87-707 1A9 02A + S3 + T9 CRBITER BASE

PARAMETER	VALUES
39:NC	.500
ELEV	.500
	.500

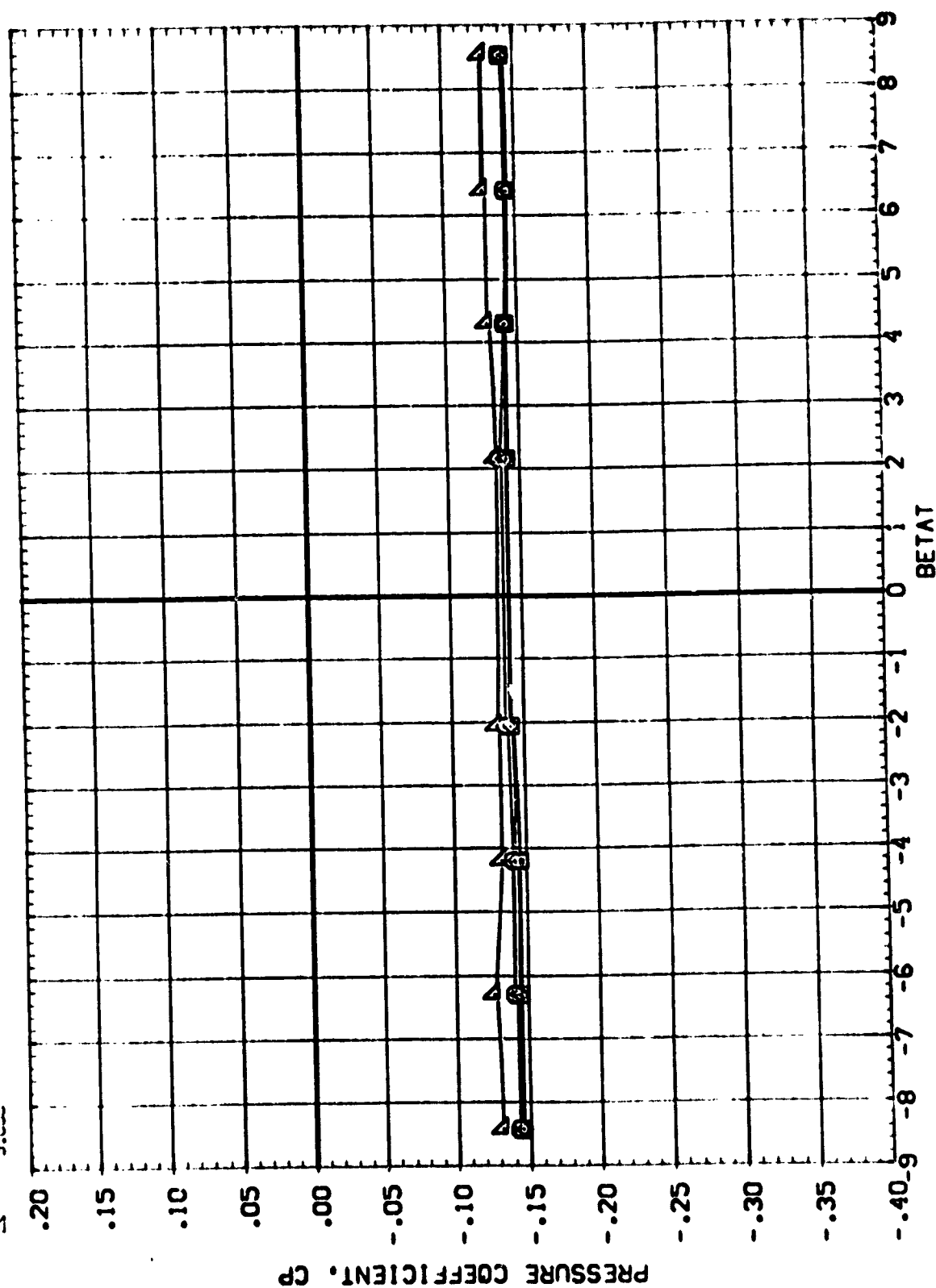
ALPHA?
RIDER
R.O.F.L.R

MACH 2.198

8

1. 2. 3. 4. 5.

4-101010-1

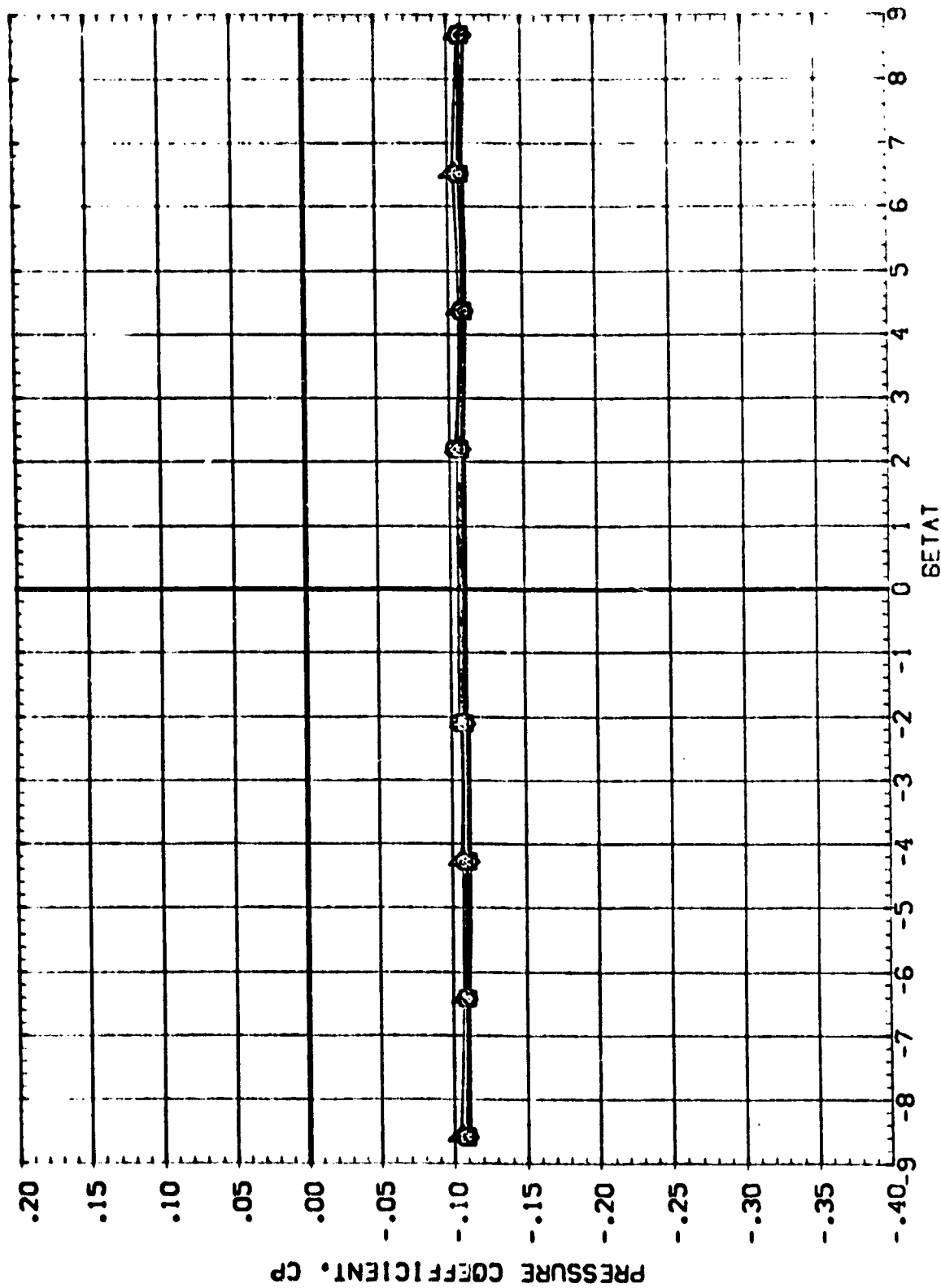


ORBITER BASE PRESSURES

AVES 87-707 1A9 C2A - S3 - '9 ORBITER BASE (R3NCC6)

PARAMETRIC VALUES
 ALPHA: .000 99.9%
 PLOTT: .000 100%
 RLOFL: .000 100%

SWITCH A WACH 2.999
 1.000
 2.000
 3.000
 4.000
 5.000



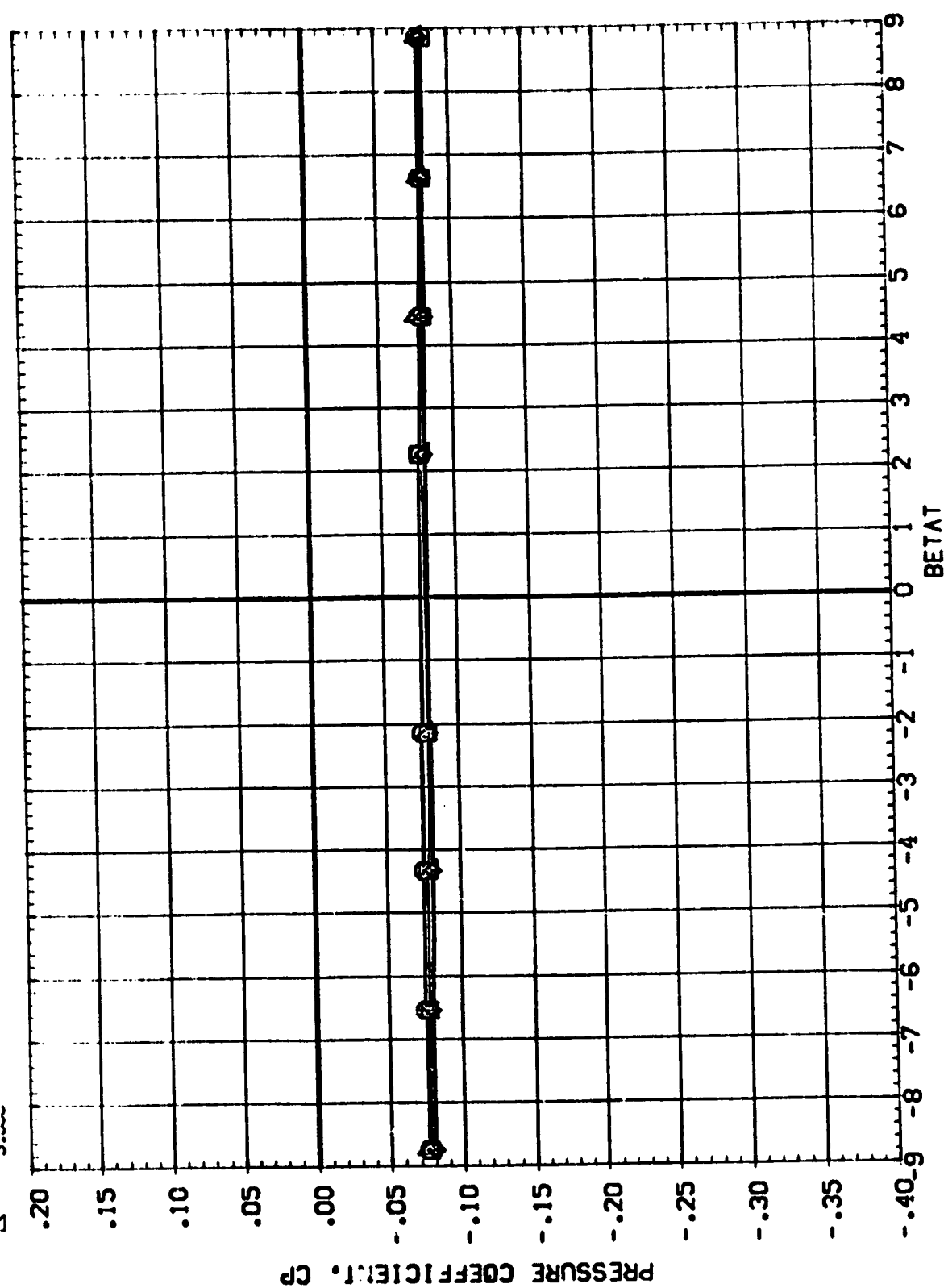
ORBITER BASE PRESSURES

(RBNC06)

AVES 87-707 1A9 C2A + S3 + 19 ORBITER BASE

PARAMETRIC VALUES
ALPHAT .000 0991C
RUDDER .000 ELEVON
RJOFLR .000

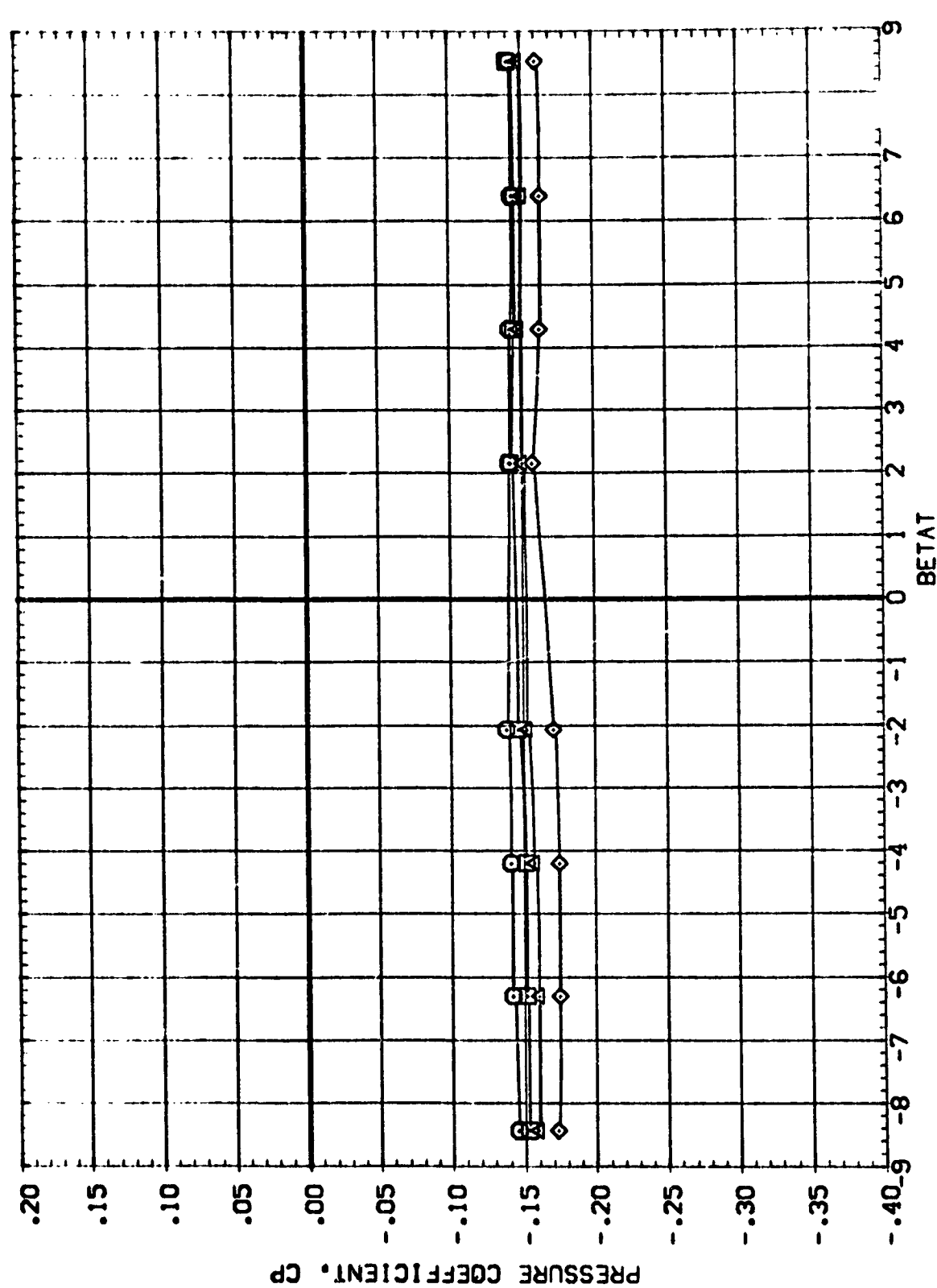
SYMBOL TAP NO A MACH
1.000
2.000
3.000
4.000
5.000



ORBITER BASE PRESSURES

JUL 1 1966
 ALPHEA
 RACER
 RACER

6.000
 7.000
 8.000
 9.000
 2.499
 .000



ORBITER BASE PRESSURES

(UNCLASSIFIED)

AVES 87-707 : A9 02A + 53 + 19 ORBITER BASE

SYMBOL
△
□
◇
▽

TAP NO
6.000
7.000
8.000
9.000

A
.000

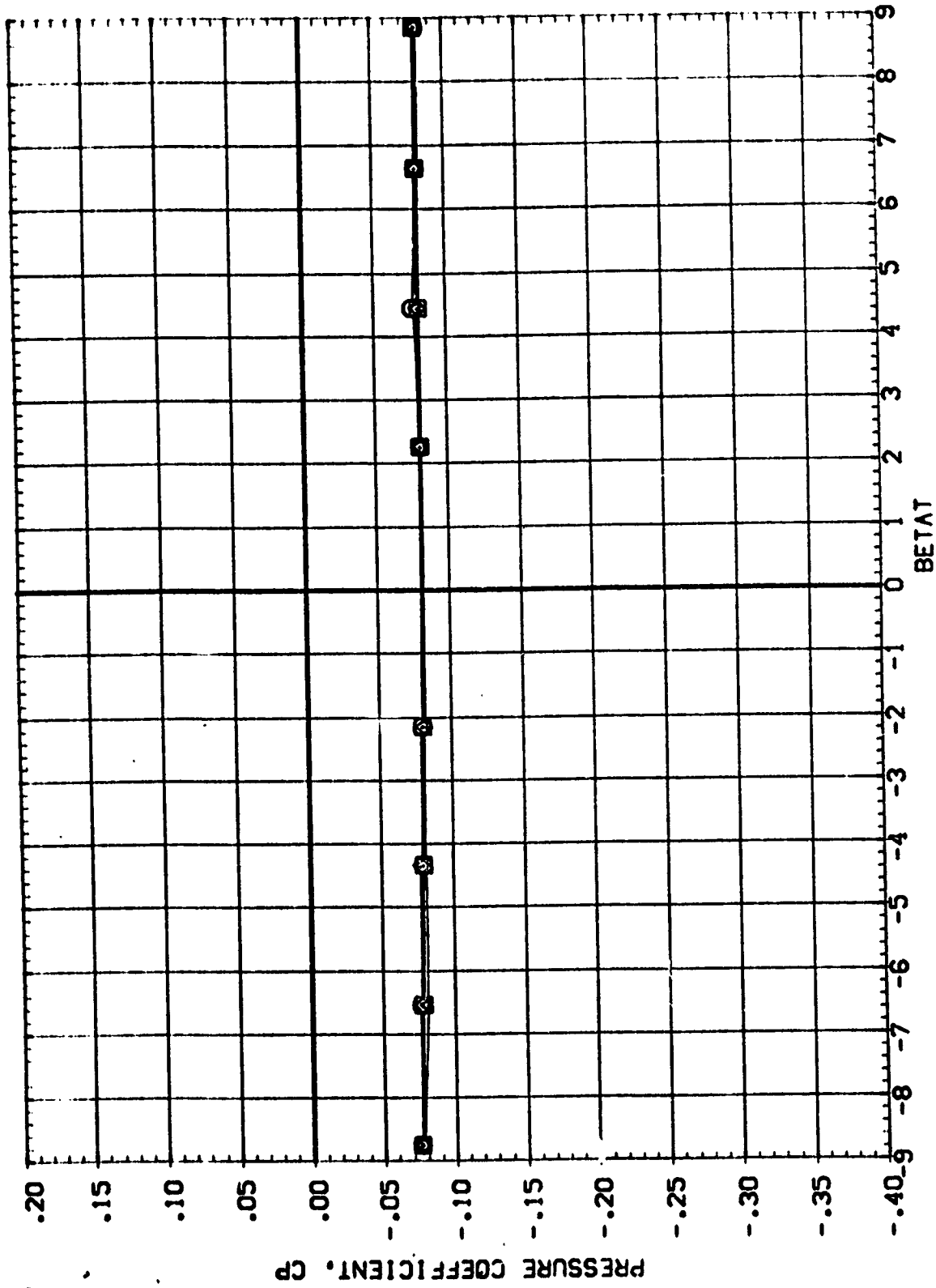
MACH
3.502

PARAMETRIC VALUES
ALPHAT
RUDDER
RUDFLR

.000
.000
.000

ORBITING
ELEVON

.500
.500

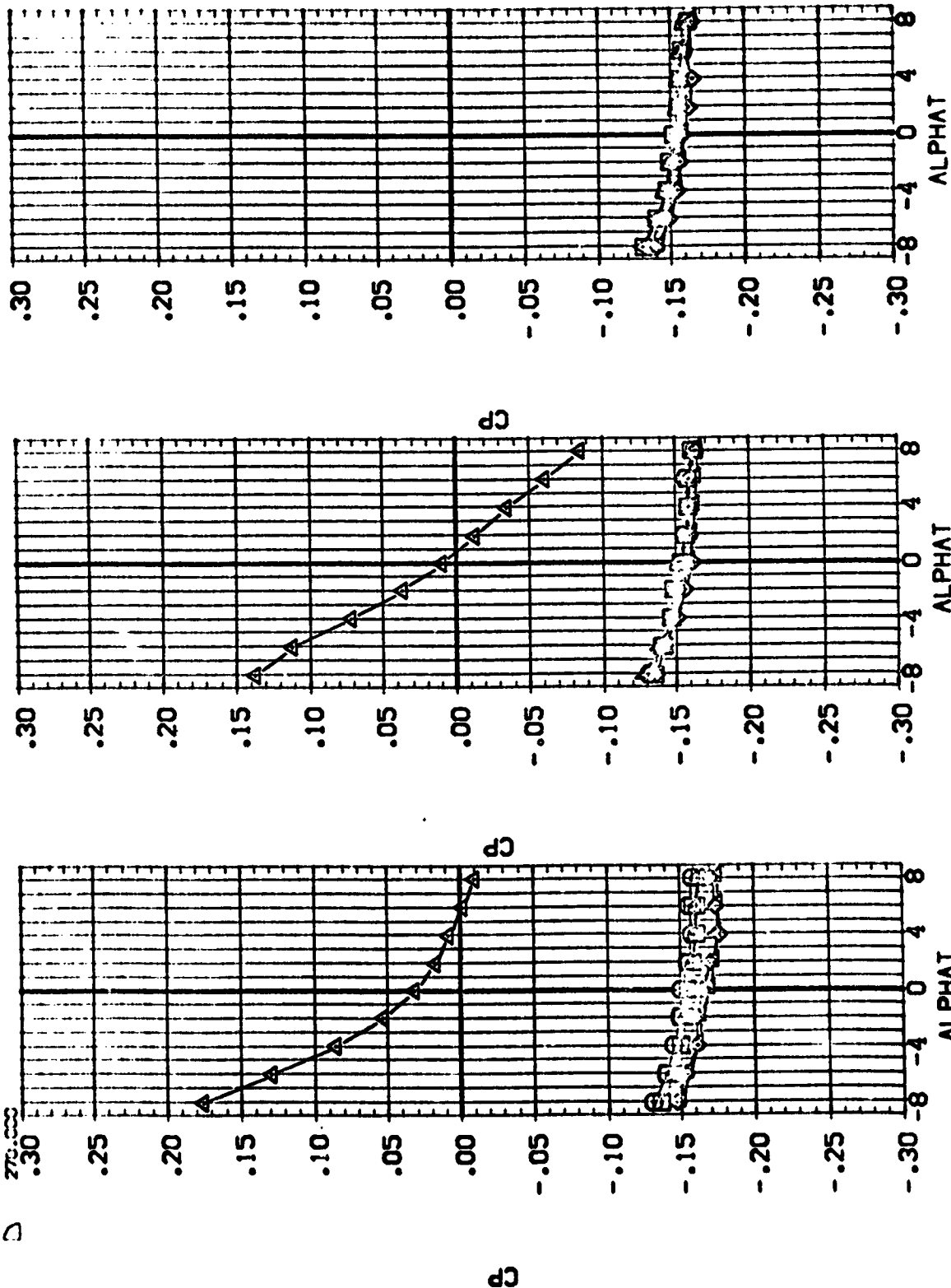


ORBITER BASE PRESSURES

AMES 87-707 :A9 C2A + S3 + T9 UPPER MPS NOZZLE (RBNDO1)

PARAMETRIC VALUES
 BETAT .000 ORBINC .500
 RDOOR .000 ELEVON .500
 RDOFLR .000

SVSC-
 PH: .000 X/LMP .75C WACH 2.498
 90.000 .500
 135.000 .75C
 180.000
 225.000
 270.000



UPPER MPS NOZZLE PRESSURES

AVES 87-707 :A9 C2A + S3 + T9 UPPER MPS NOZZLE (RBN001)

Syngor

 \ddot{a}

2/29

20

 \ddot{a}

2/29

20

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8.

32.

2.99

110

88

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PARAMETRIC VALUES

BETA!

8.

2:00

५.

RECEIVED

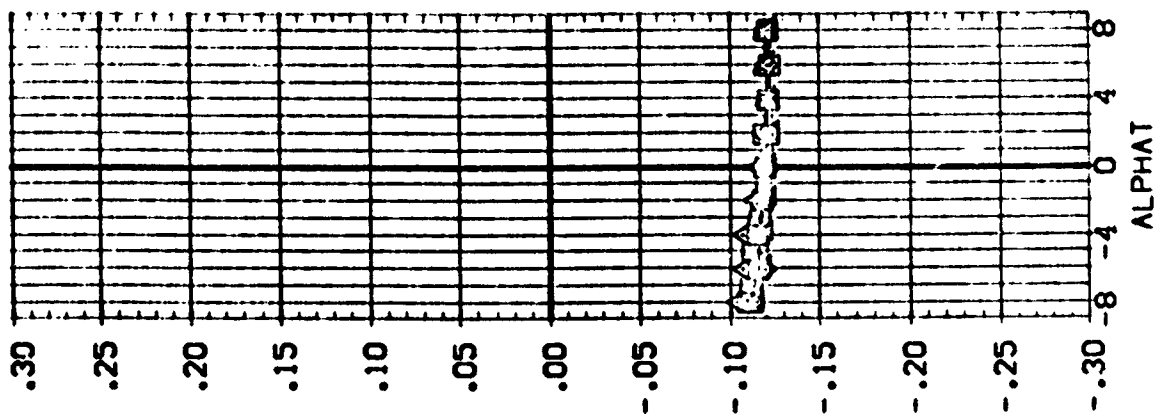
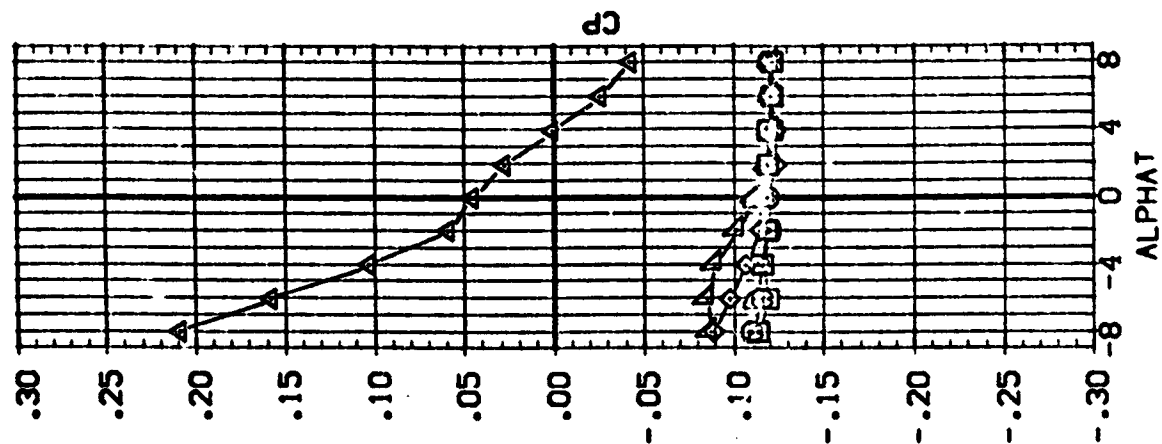
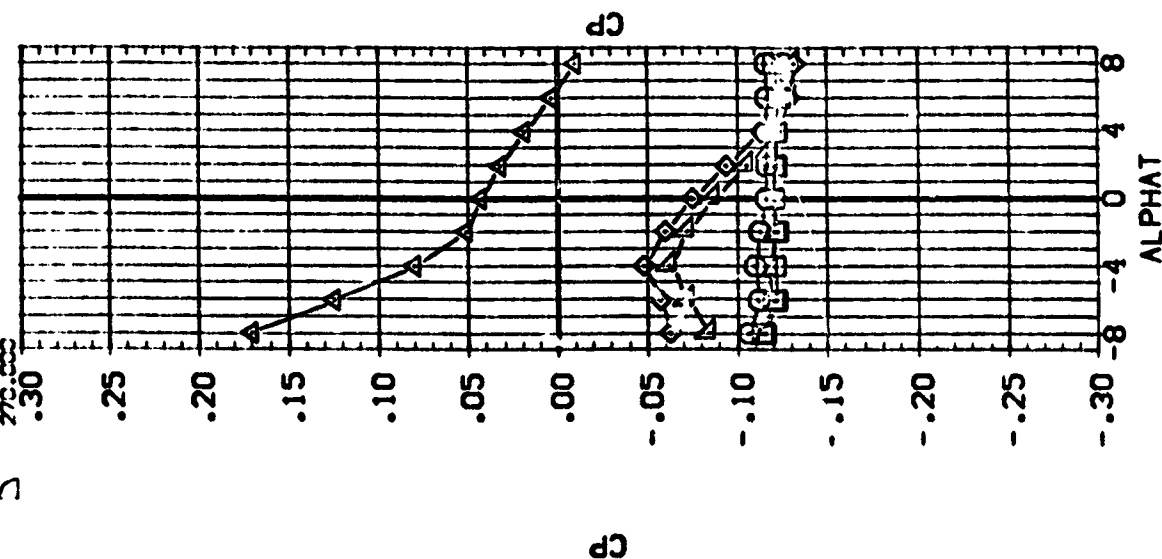
४.

ELEVEN

॥

205-2

8.



UPPER MPS NOZZLE PRESSURES

(KJNUJ)

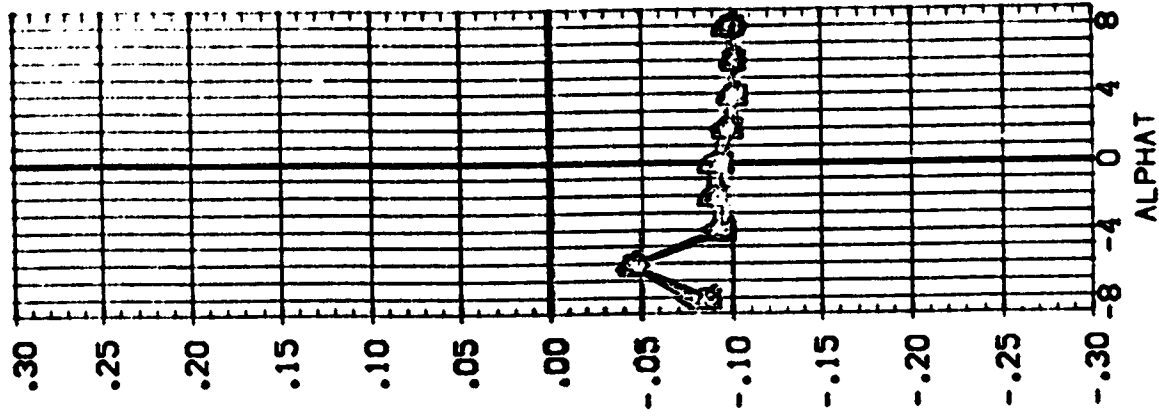
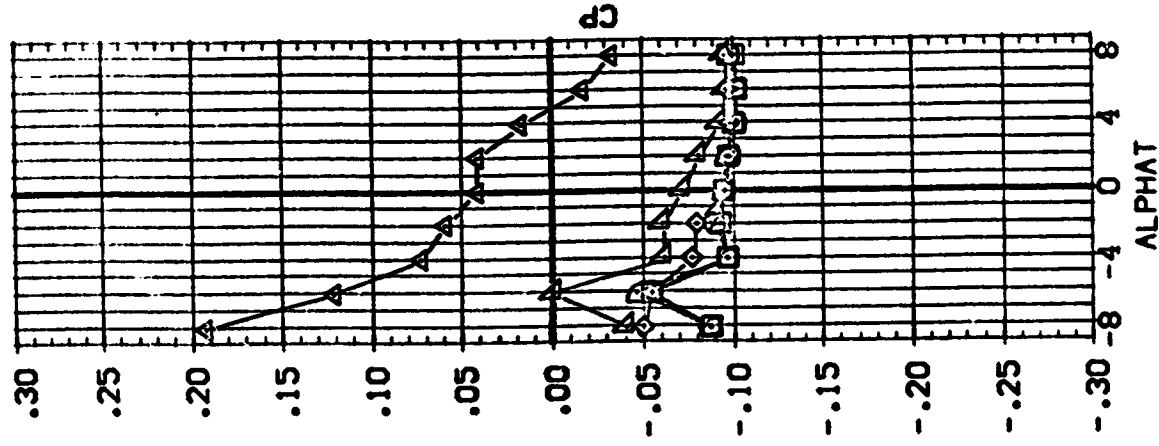
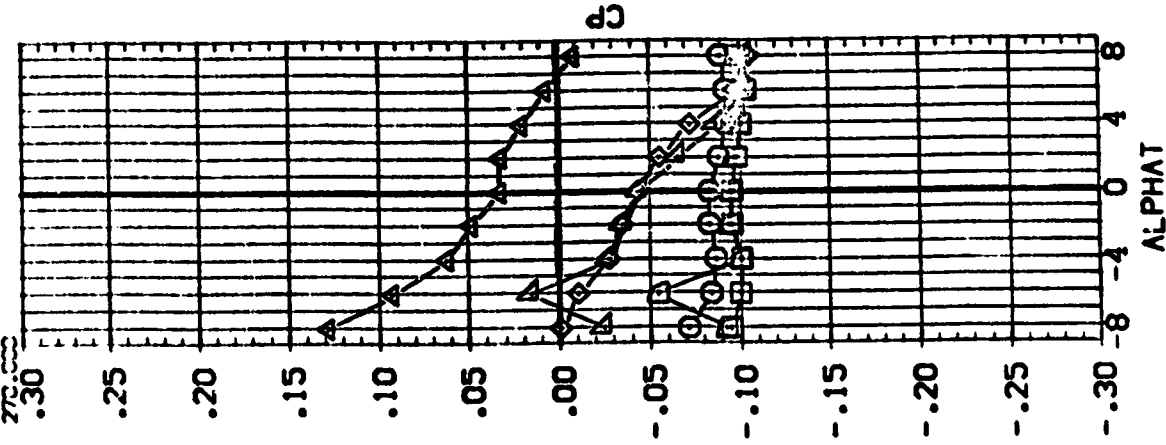
AVES 87-707 1A9 22A + S3 + 18 UPPER MPS NOZZLE

SYMBOL

PH: .000
90.000
135.000
180.000
225.000
270.000

MACH
.750
.500
.750

PARAMETRIC VALUES
BETAT .000 DRBINC .500
RUDER .000 ELEVON .000
RUDFLR .000



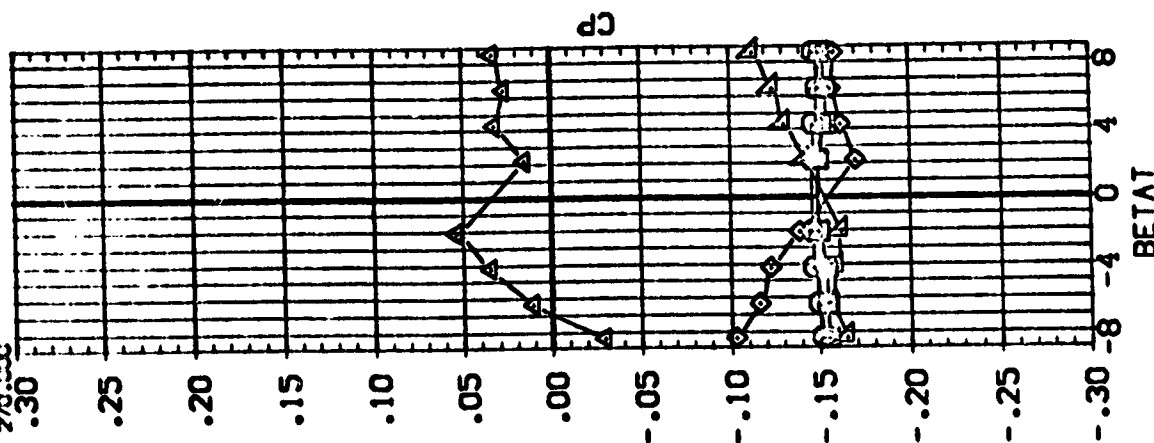
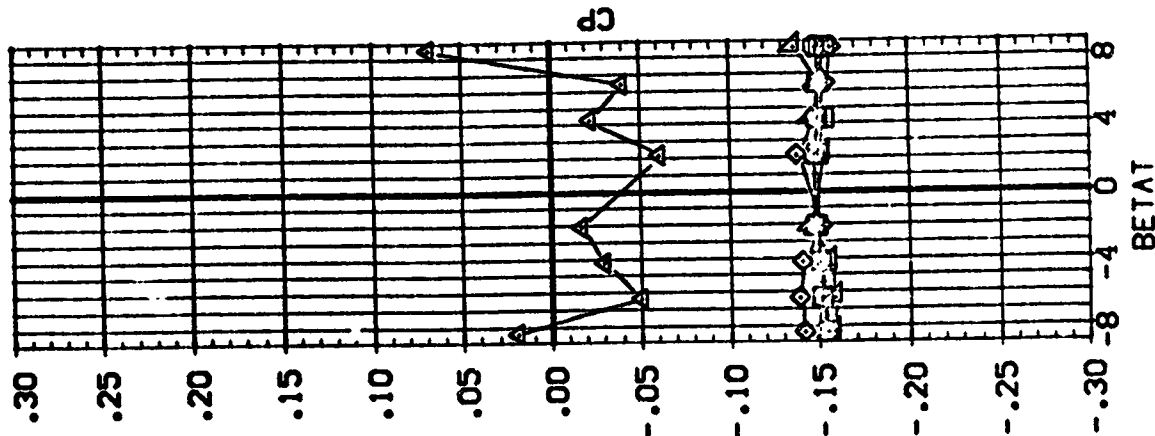
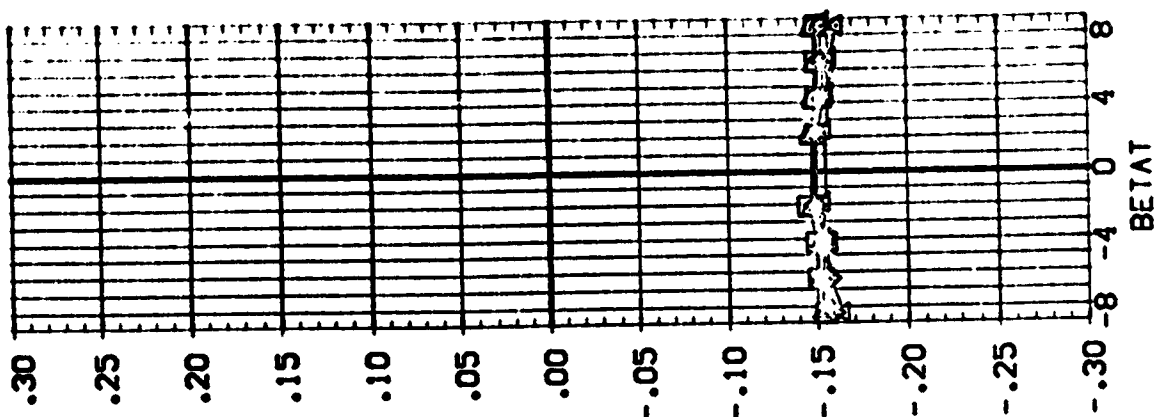
UPPER MPS NOZZLE PRESSURES

AVES 87-707 :A9 C2A + S3 + T9 UPPER MPS NOZZLE (RBND006)

PARAMETRIC VALUES
 ALPHAT .000 DRBINC .500
 RLODER .000 ELEVON .000
 RUOFLR .000

SYMBG. PH: X/LMP MAC=

.000 .750 2.496
 90.000 .500
 135.000 .750
 180.000
 225.000
 270.000



UPPER MPS NOZZLE PRESSURES

AVES 87-707 :A9 02A + S3 + T9 UPPER MPS NOZZLE (RBND06)

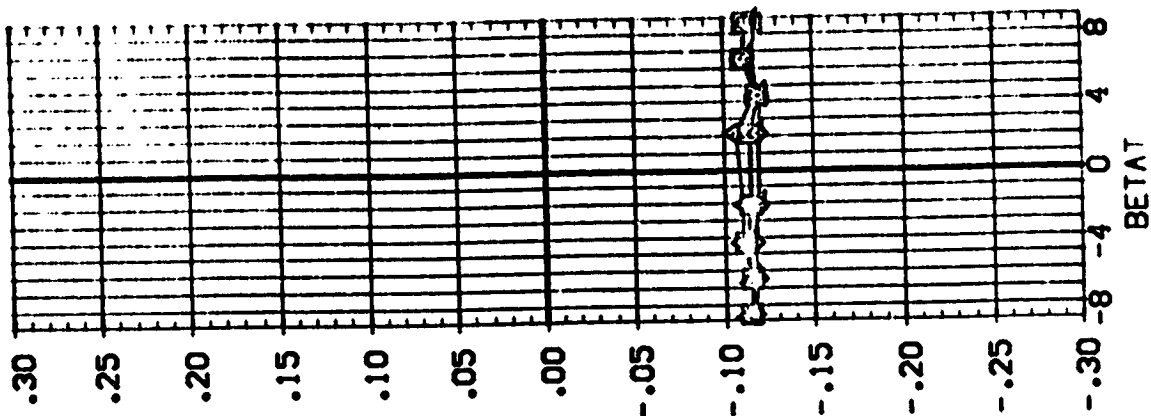
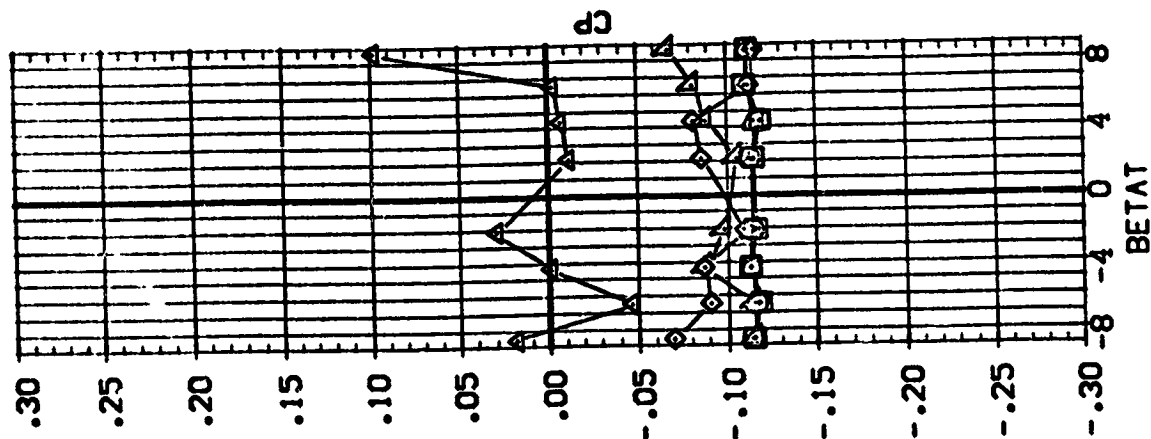
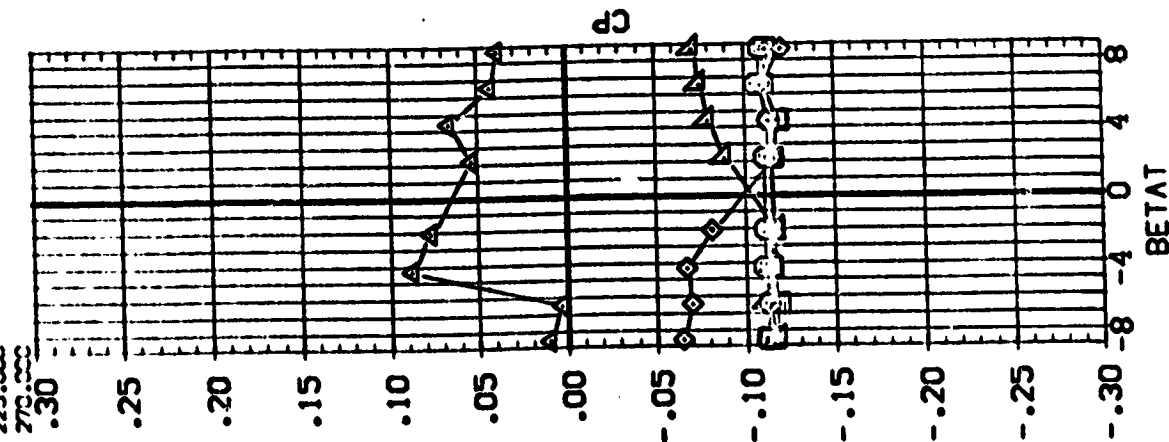
SYMBOLS

PH: .000
90.000
136.000
186.000
275.000
279.000

X/L NP WAC 2.999
.250
.500
.750

PARAMETRIC VALUES
ALPHAT .000 999.0
RUDER .000 ELEVON .000
RUOFLR .000

.500
.000



UPPER MPS NOZZLE PRESSURES

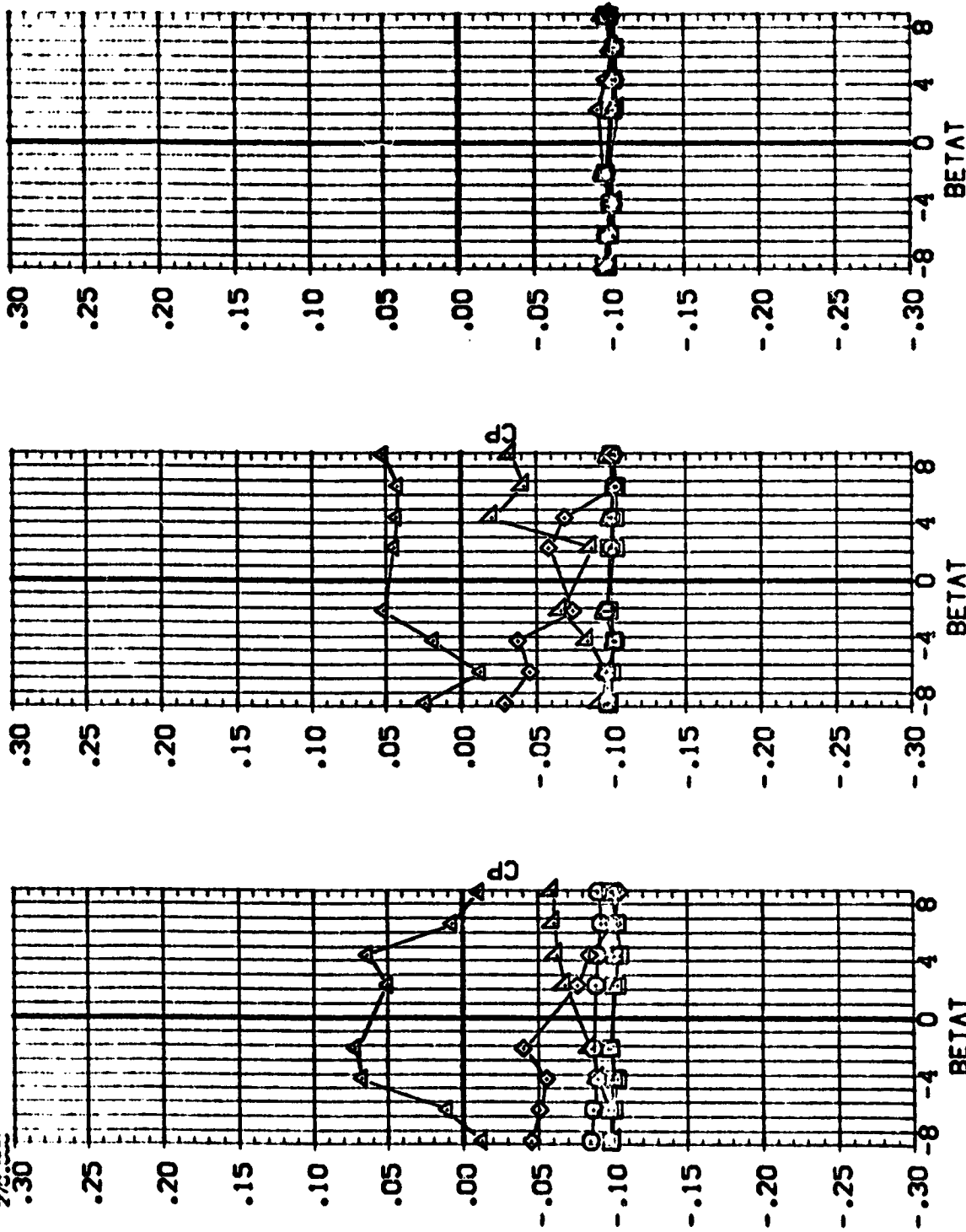
SYMBOL
 □ ○ ◇ △ ▽

PH: .000
 90.000
 135.000
 180.000
 225.000
 270.000

X/V P MACH
 .250 3.502
 .500
 .750

PARAMETRIC VALUES
 ALPHAT .000
 RUDDER .000
 RUOFLR .000

ORBITING
 ELEVON .500
 .000



UPPER MPS NOZZLE PRESSURES

AVES 87-707 1A9 32A + S3 + T9 QMS NOZZLE

[RBNE01]

SYMBOL

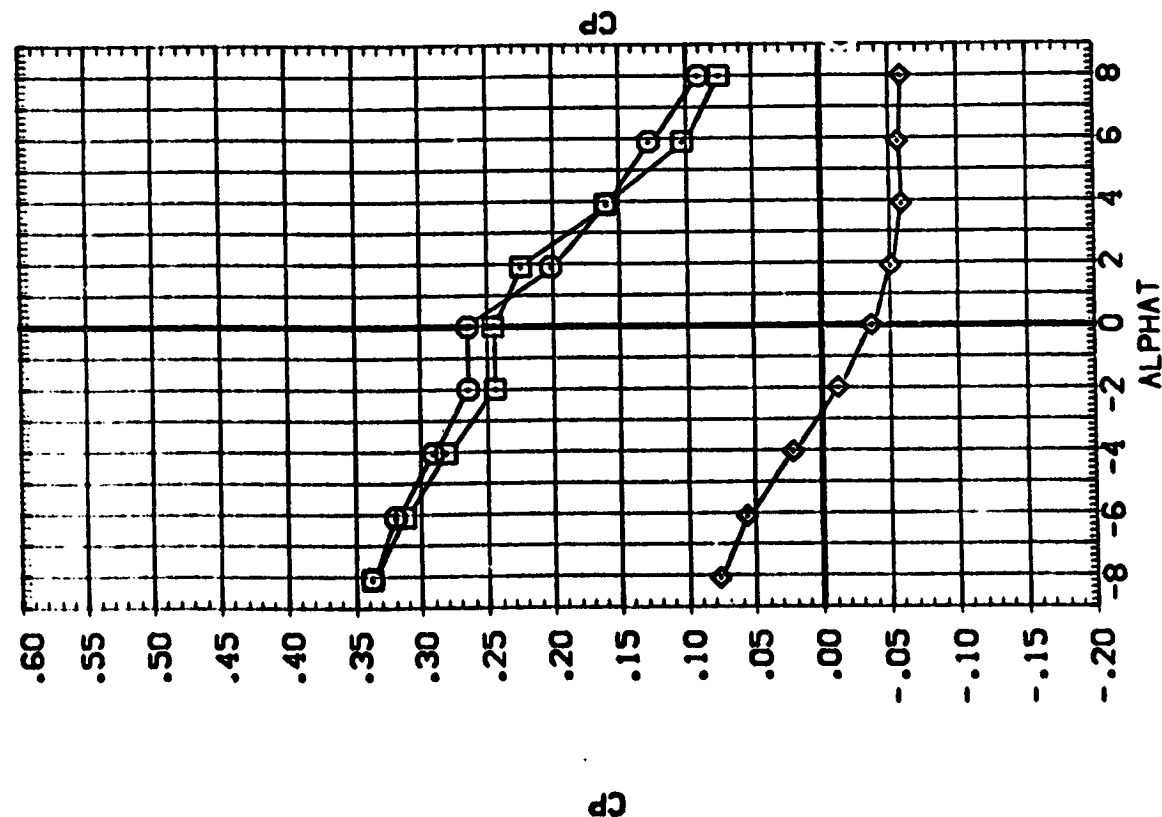
135.000
180.000
275.000

X1-N°
.700
.400

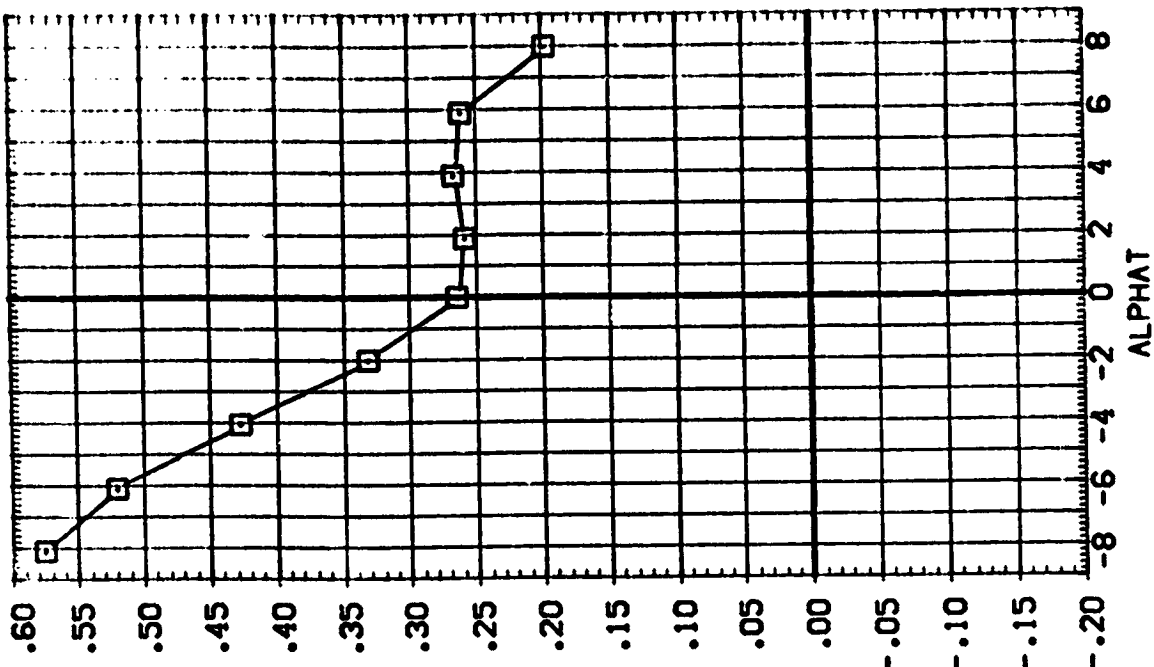
WACH
2.498

PARAMETRIC VALUES

BETAT .000
RUDDER .000
RUOFLR .000
ORBINC .500
ELEVON .000



QMS NOZZLE PRESSURES

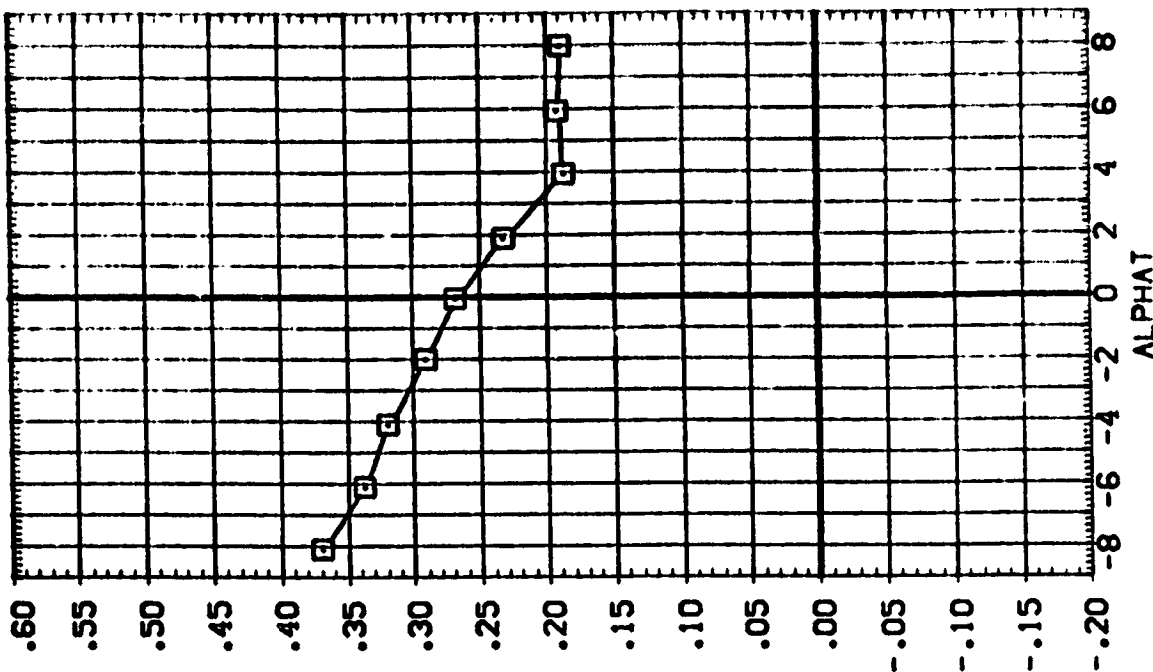
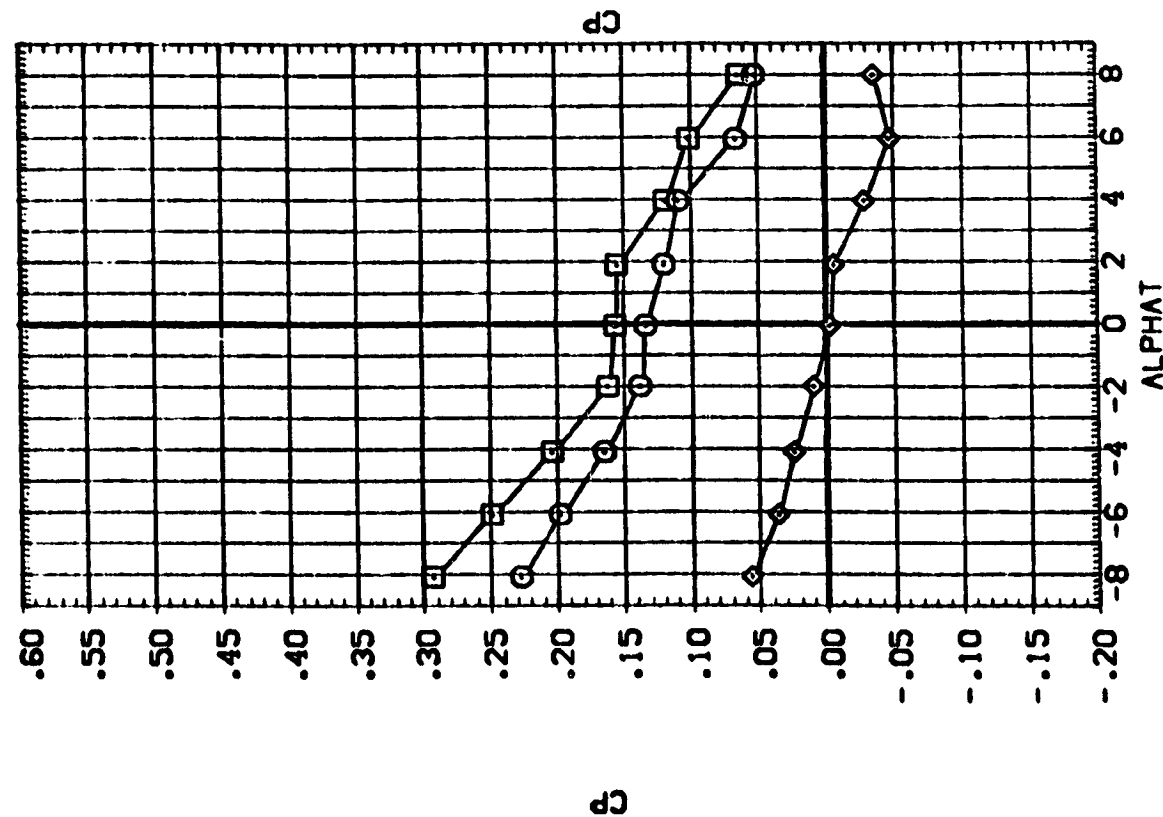


SYSC-
 P-1
 :35.000
 :60.000
 :75.000

X/L W
 .200
 .400

MACH
 2.999

PARAMETRIC VALUES
 BETAT .000 ORBINC .500
 RLODER .000 ELEVON .000
 RLOFLR .000

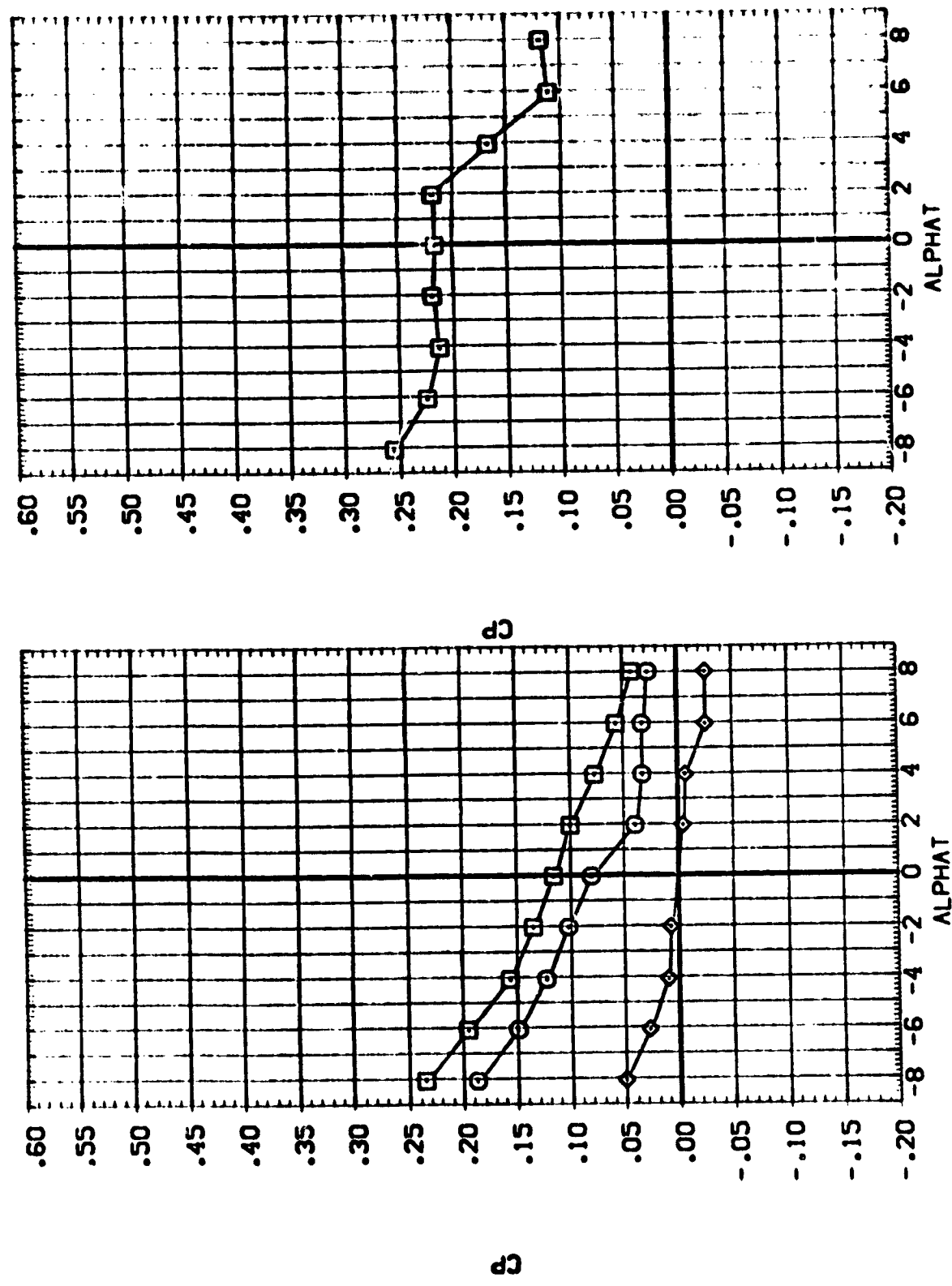


CMS NOZZLE PRESSURES

AVES 87-707 :A9 02A + S3 + T9 0MS NOZZLE

(RBNE01)

SYSC	PA:	X/L	W	MACH	PARAMETRIC VALUES
011	:35.000	.200	3.502	BETAT	.000
0	:80.000	.400		RJ00R	.000
	:775.000			RJ0FLR	.000



OMS NOZZLE PRESSURES

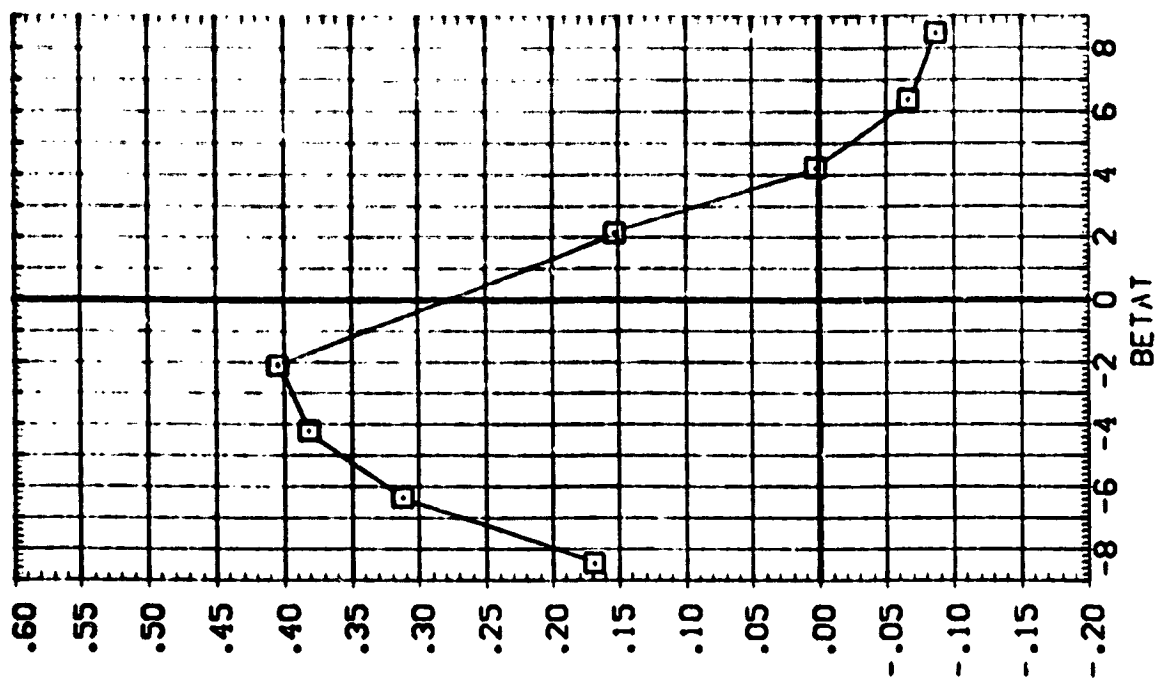
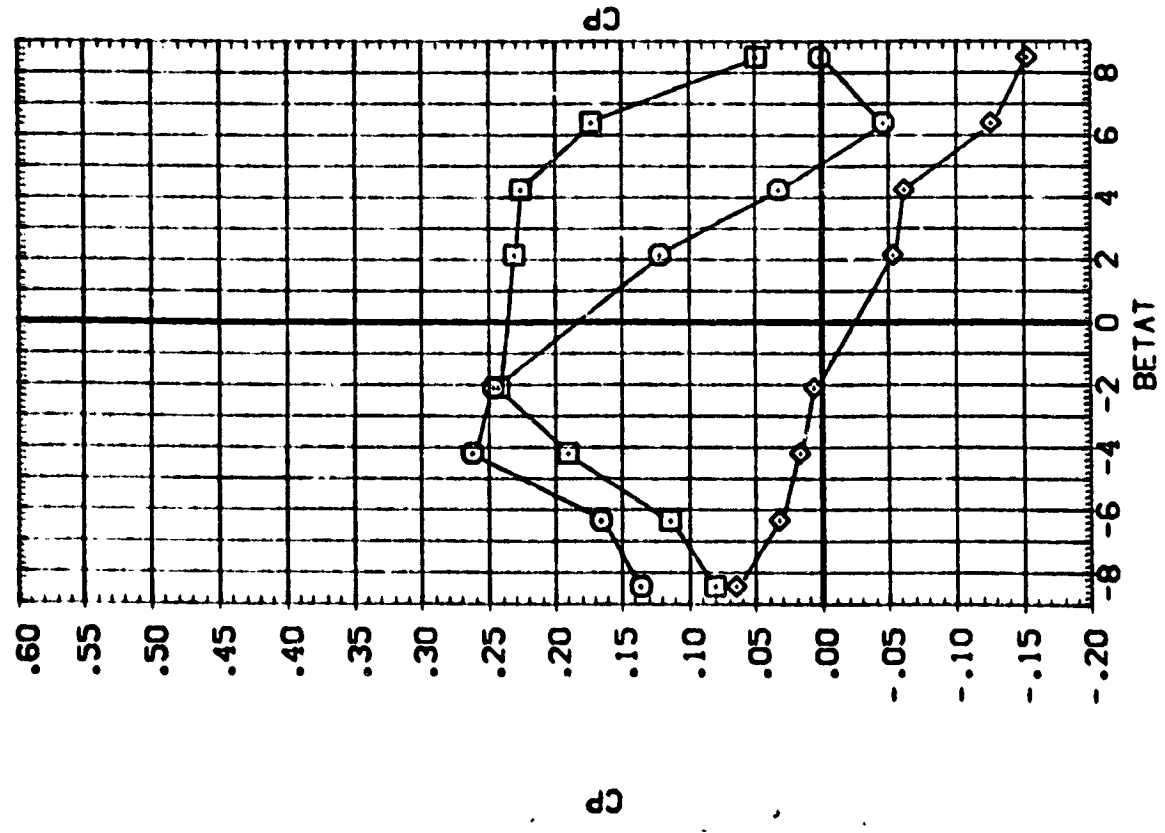
SYMBOL
()
◇

PA-1
:35.000
:86.000
275.000

X/LIN
.700
.400

ALPHAT
RLODR
RLOFLR

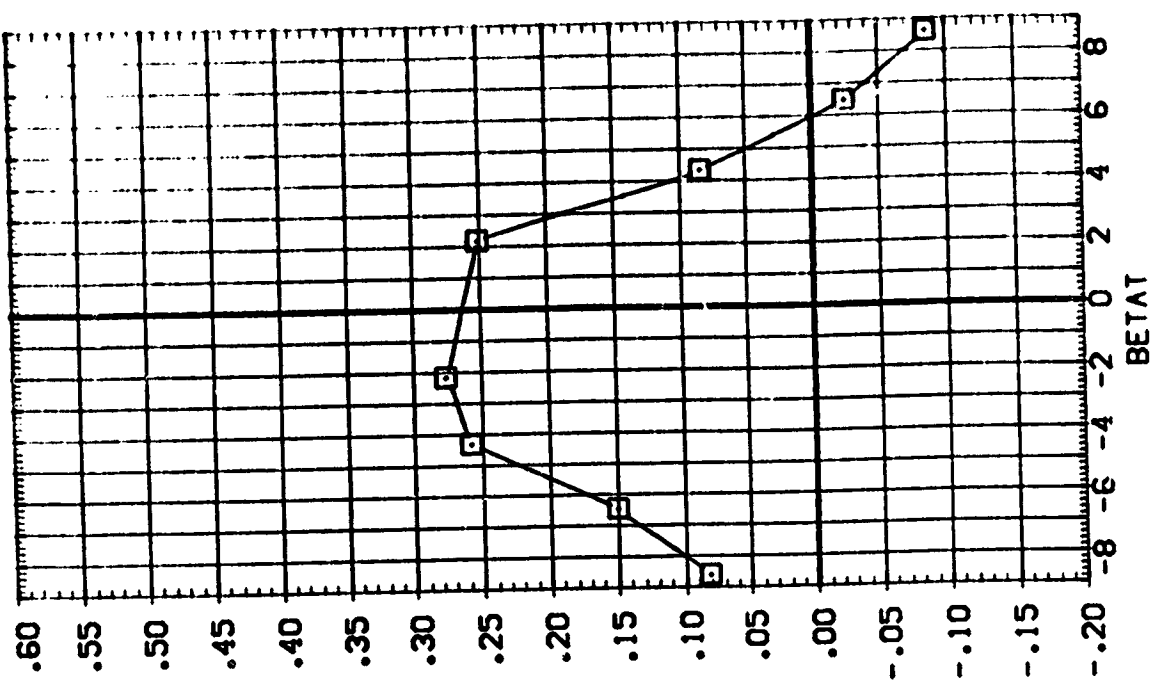
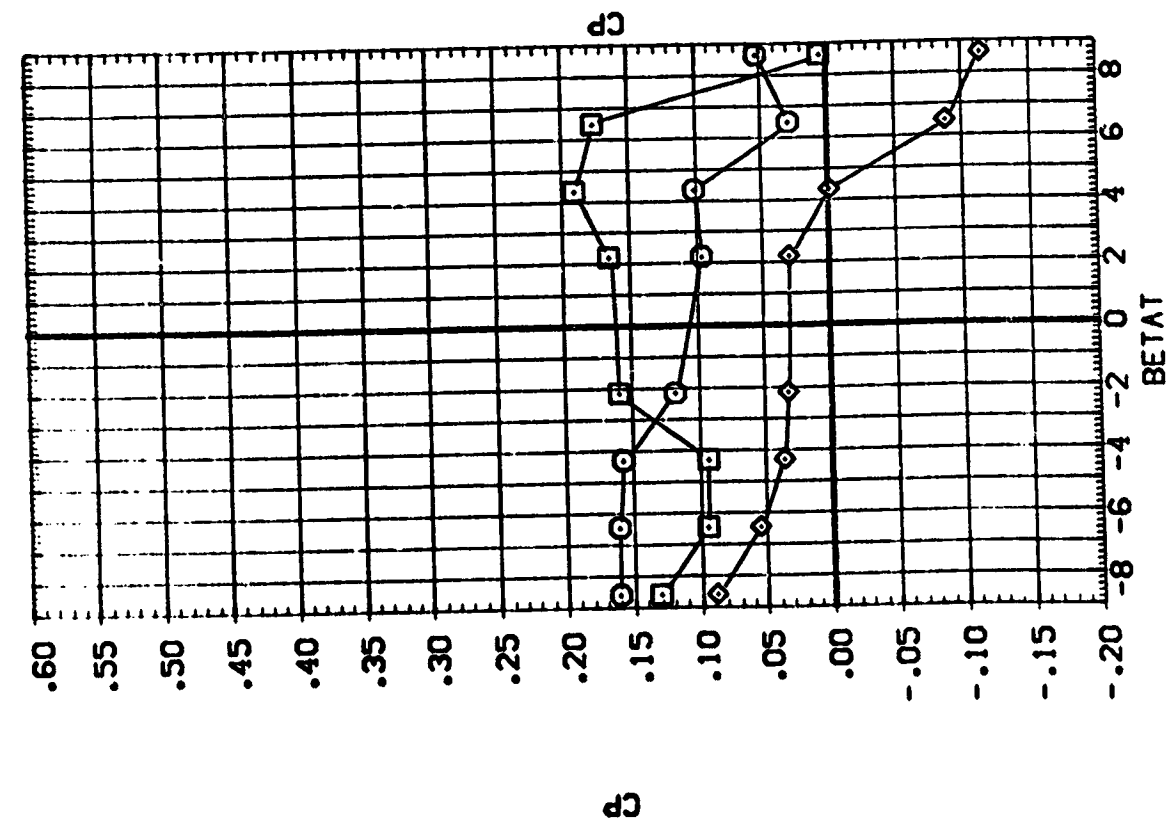
PARAMETRIC VALUES
.000 .000 .000
P98:NC ELEVON



QMS NOZZLE PRESSURES

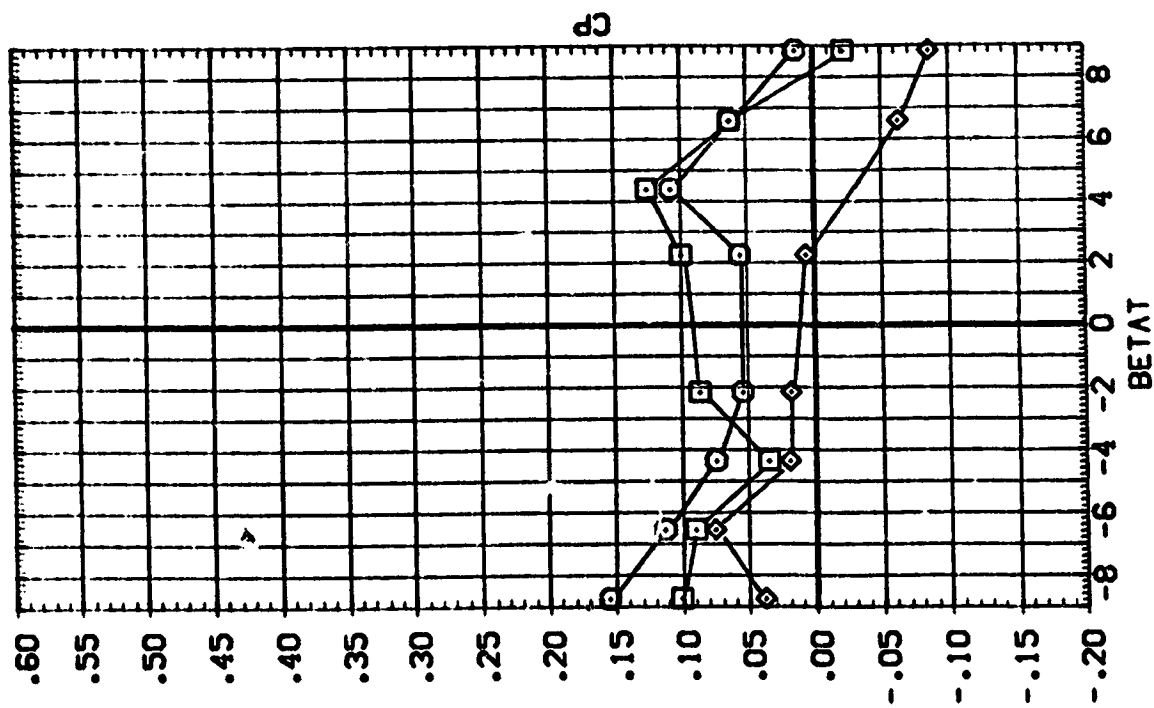
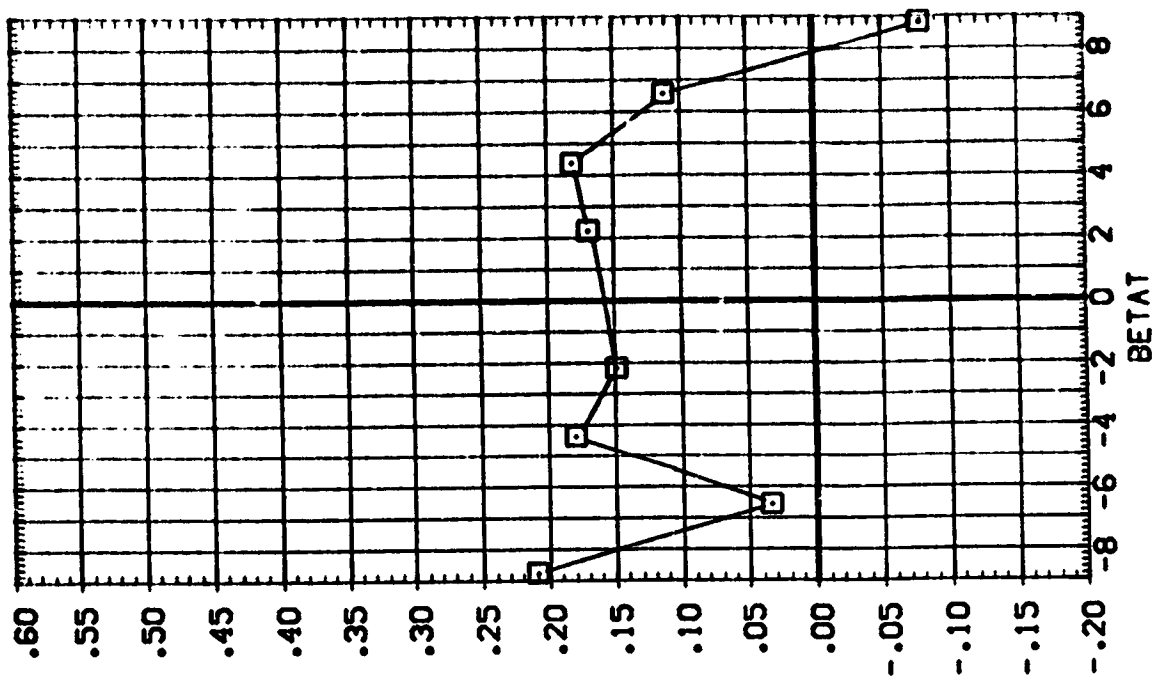
SYMBOL P-1 Y/LIN MACH
 O 135.000 .700 2.999
 □ 180.000 .400
 ◇ 275.000

PARAMETRIC VALUES
 ALPHAT .000 SRBINC .500
 RUDDER .000 ELEVON .000
 RUFLR .000



GYS NOZZLE PRESSURES

135.000	.200	3.502
180.000	.420	
225.000		



QMS NOZZLE PRESSURES

REMARKS

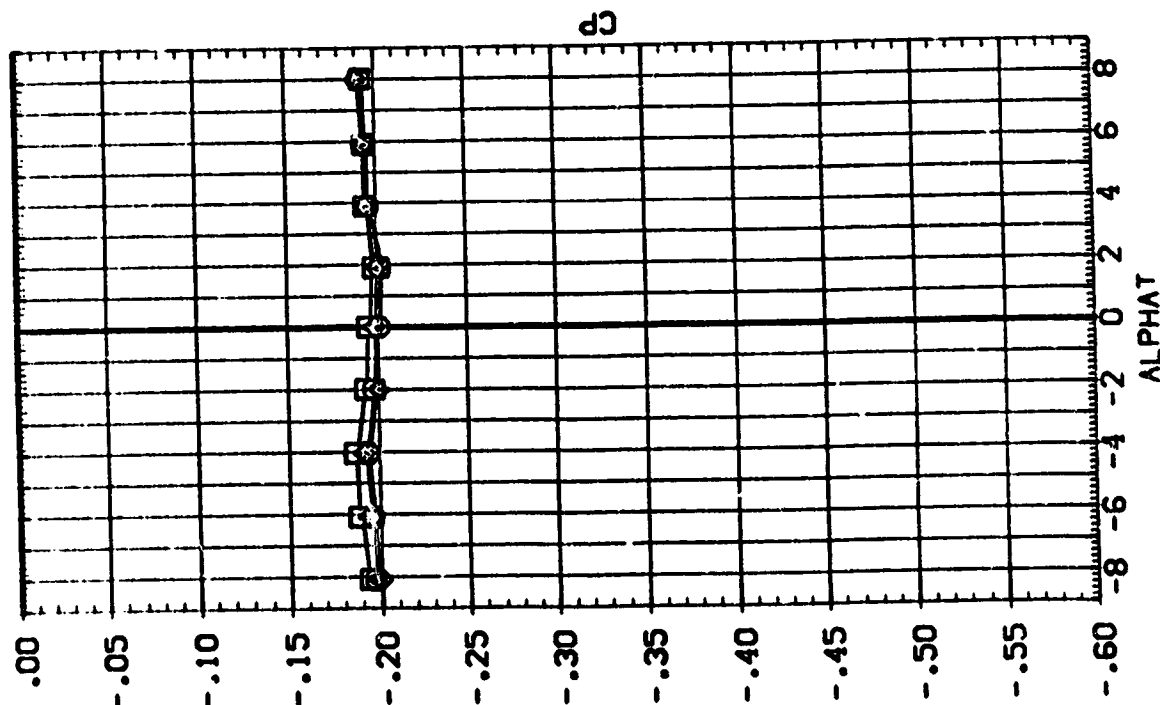
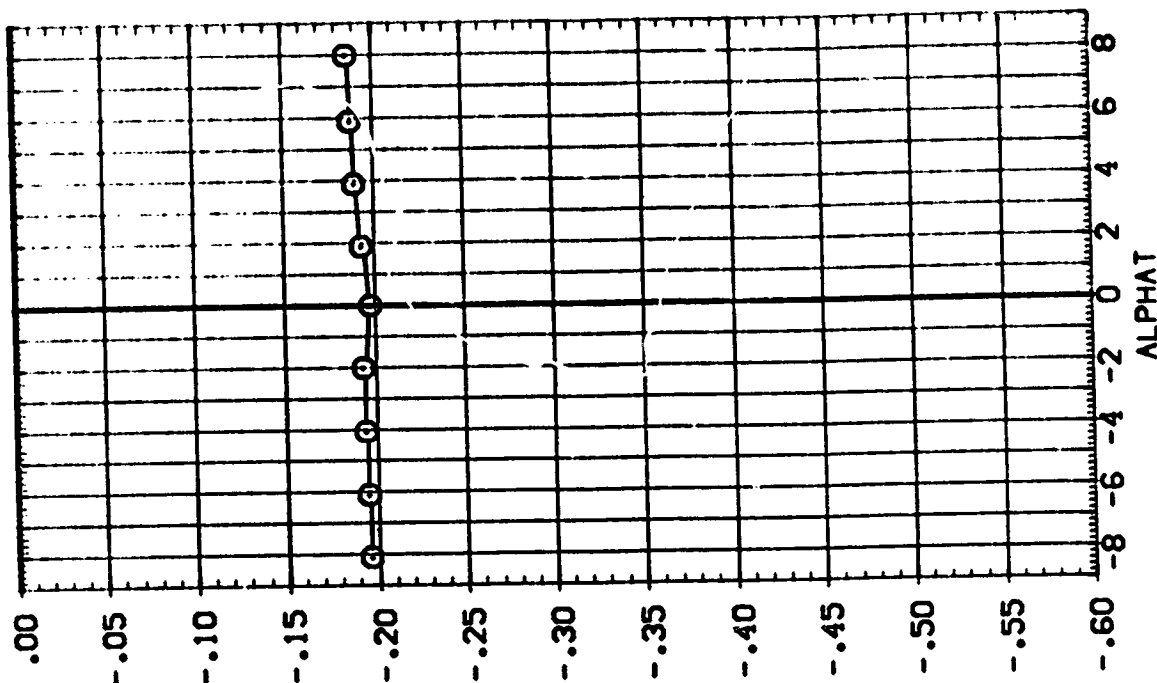
AVES 87-707 :A9 C2A - S3 + T9 SRM BOOSTER BASE

SYMBOL

PA: .000
90.000
180.000
270.000

X/L S PACH
.986 2.498
1.000

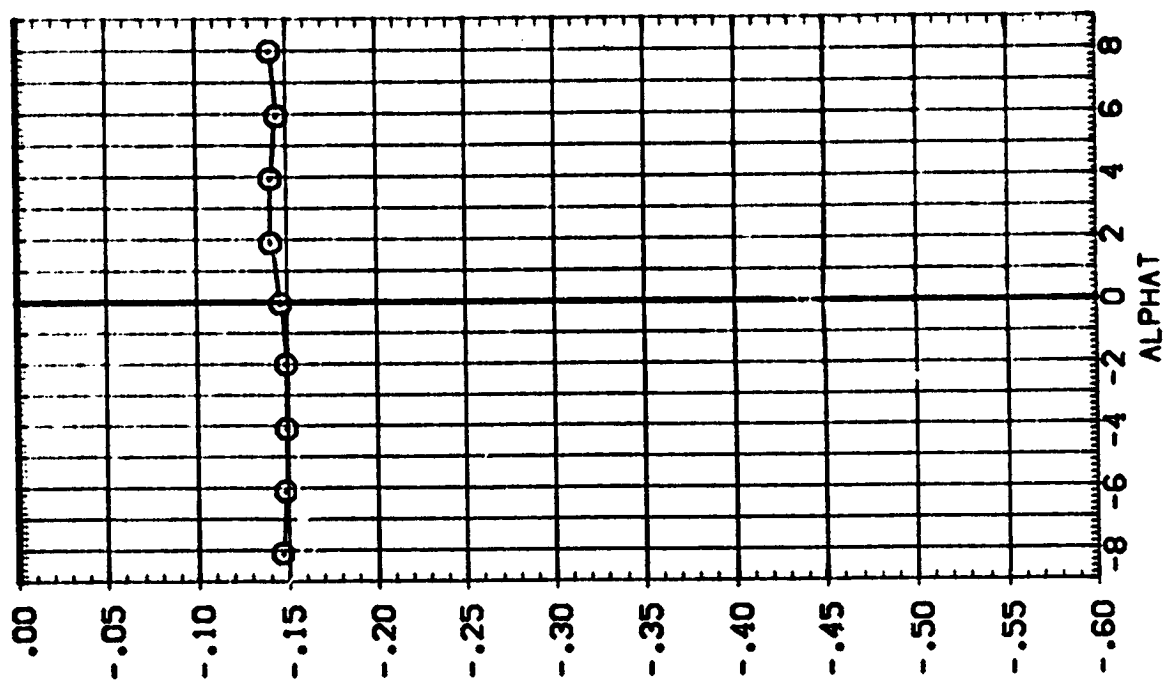
PARAMETRIC VALUES
BETAT .000
RUDDER .000
RUDDER .000
ELEVON .500
ELEVON .000



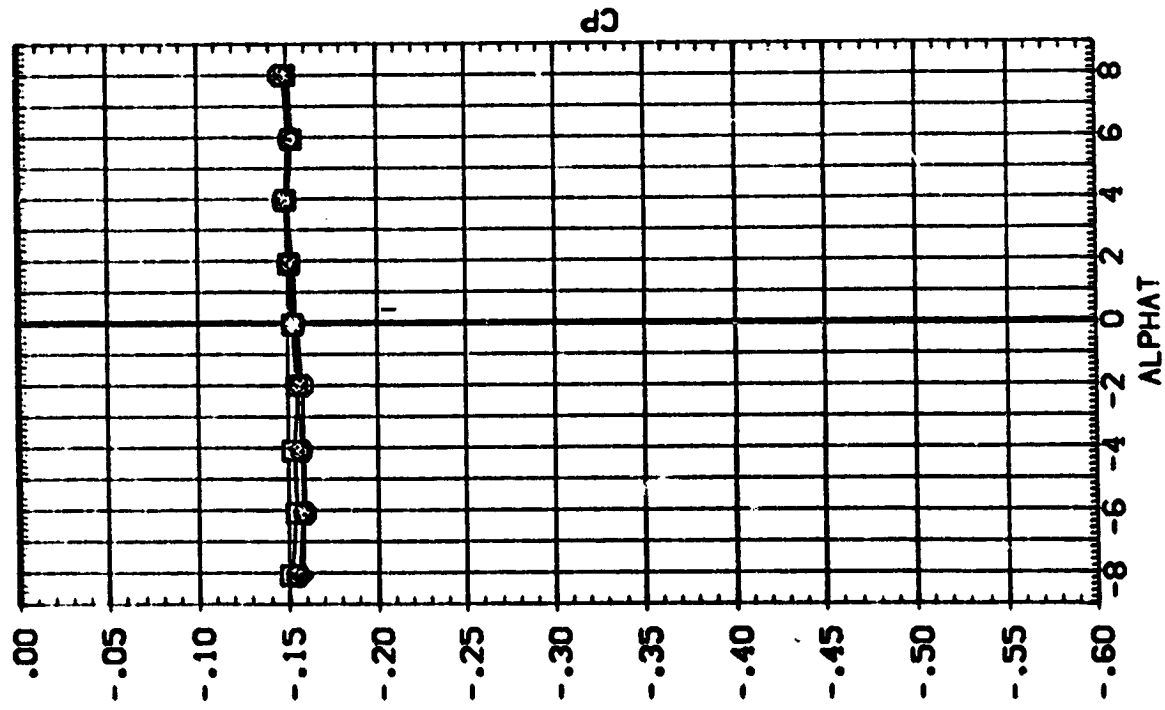
SRM BOOSTER BASE PRESSURES

PARAMETER: C VALUES
 .000 DBI:NC
 .000 ELEVON
 .000

BETA:
 RUDER
 RUDER



SRM: .000 MACH 2.999
 .965
 .000
 .000
 .000
 .000



SRM BOOSTER BASE PRESSURES

AVES 87-707 1A9 02A + S3 + 19 SRM BOOSTER BASE (RBNX01)

SYMBOL
O
□
◇
△

PHI
.300
50.000
100.000
270.000

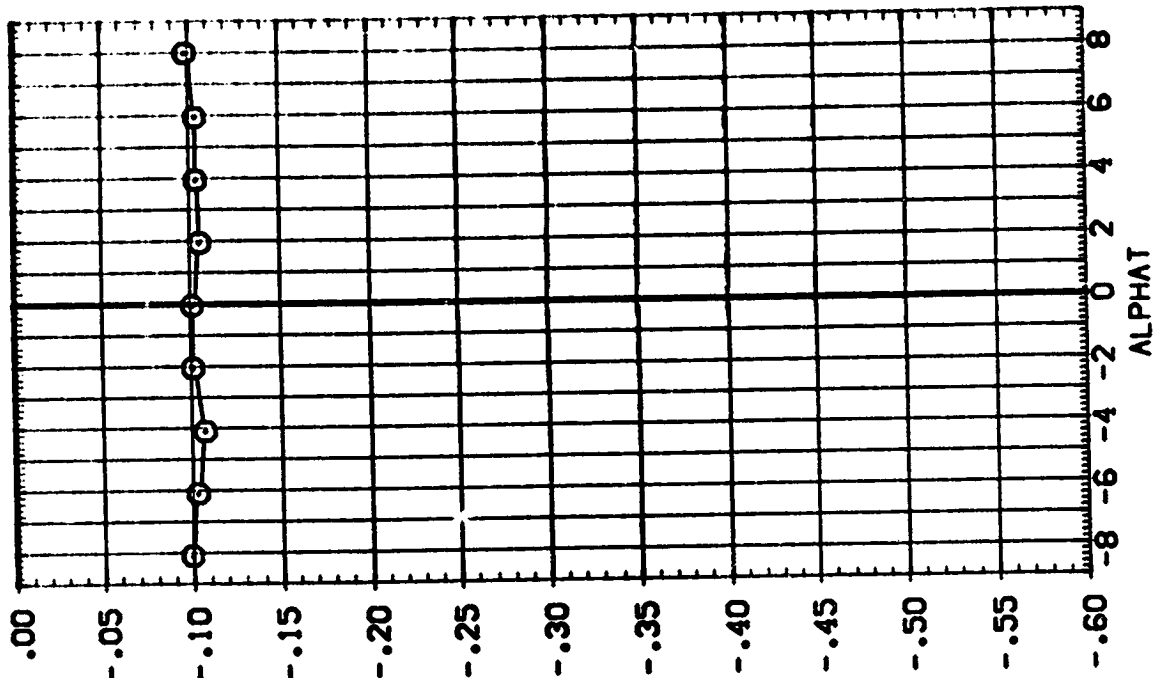
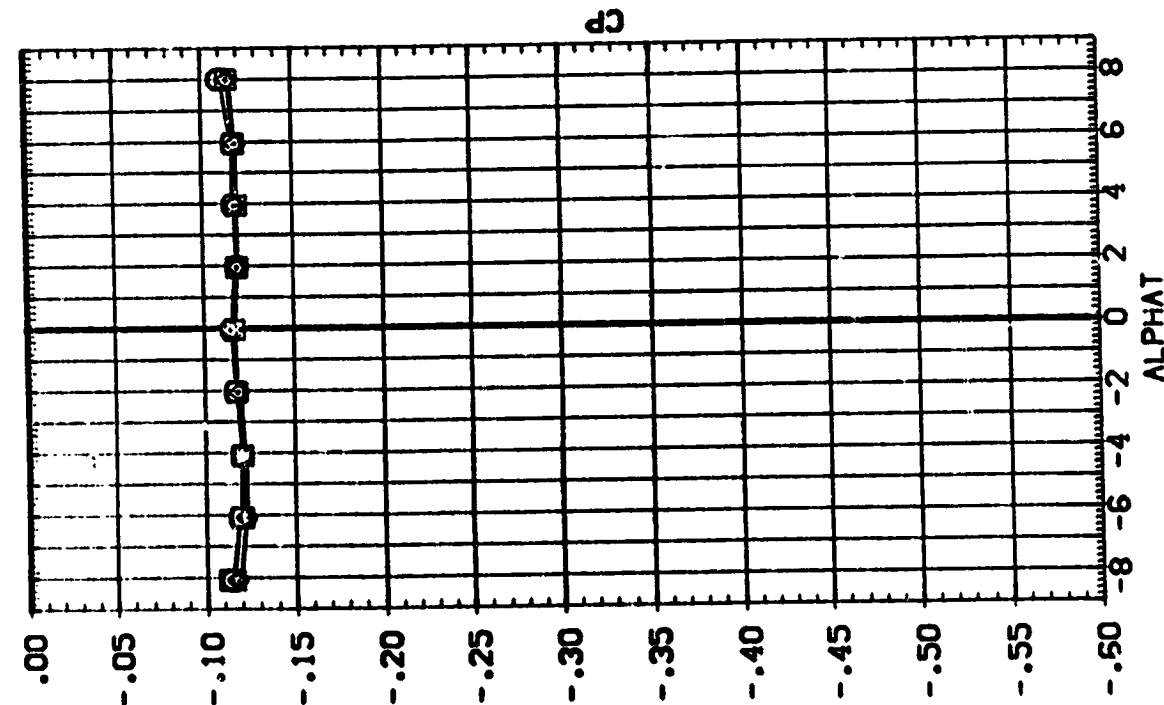
X/L5
.985
.000

MACH
3.502

PARAMETRIC VALUES
BETAT
R0DER
R0FLR

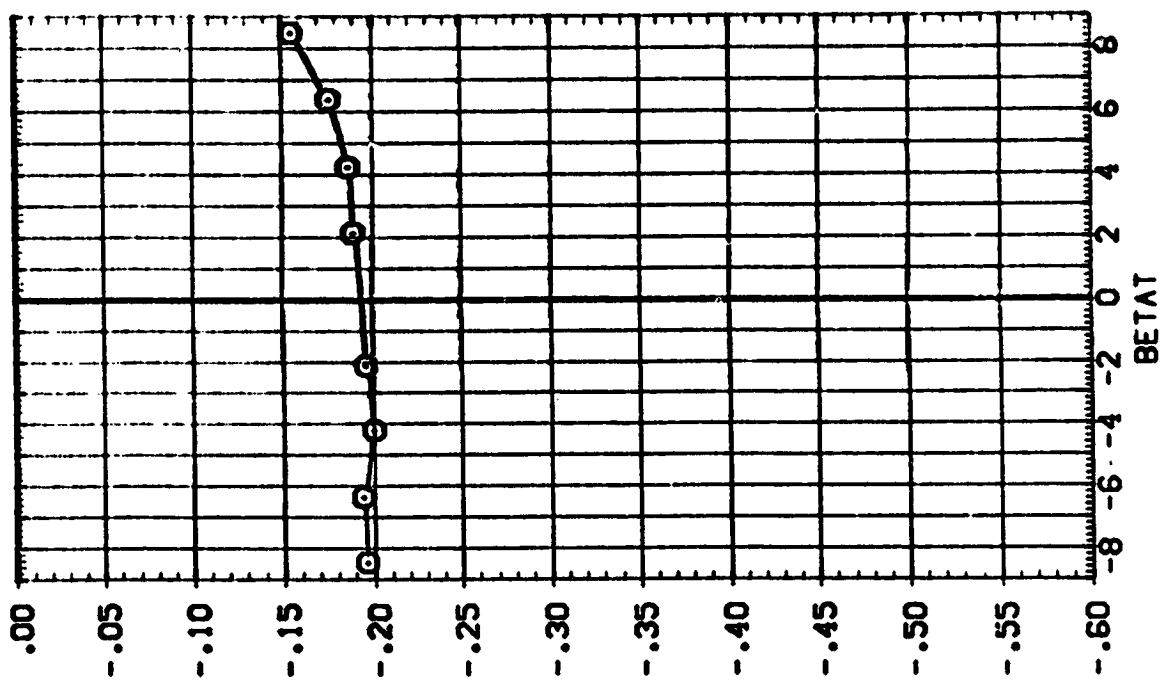
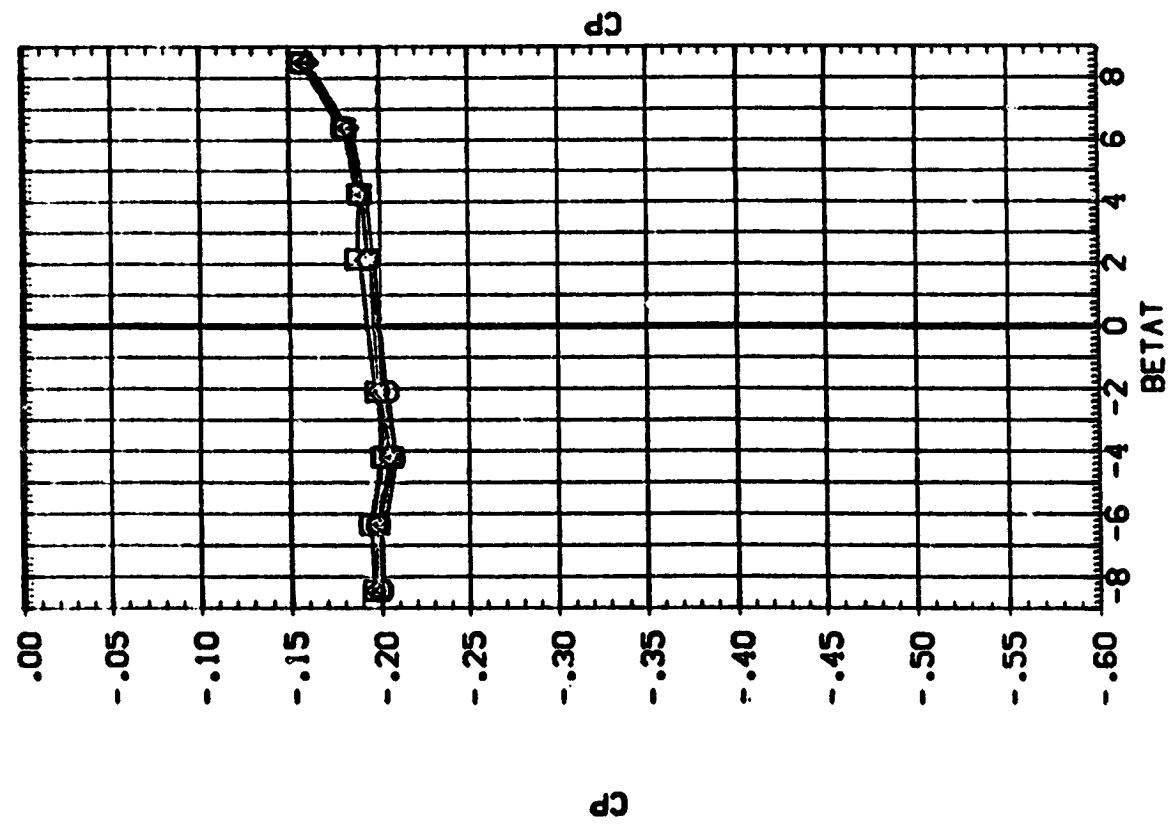
ORBIT NC
ELEVON

.500
.000
.000
.000



SRM BOOSTER BASE PRESSURES

SYMBOL	PMI	X/L	S	MACH	PARAMETRIC VALUES
□	.000	.995	2.498	ALPHA	.000
◇	90.000	1.000		ROLL	.000
△	180.000			ELEV	.000
	270.000			ROLL	.000



SRM BOOSTER BASE PRESSURES

=

AMES 87-707 1A9 C2A + S3 + T9 SRM BOOSTER BASE (R3\XC6)

SYMBOL P-1 X/L S WACH

△ 0.000 .985 2.999

▽ 90.000 1.000

180.000

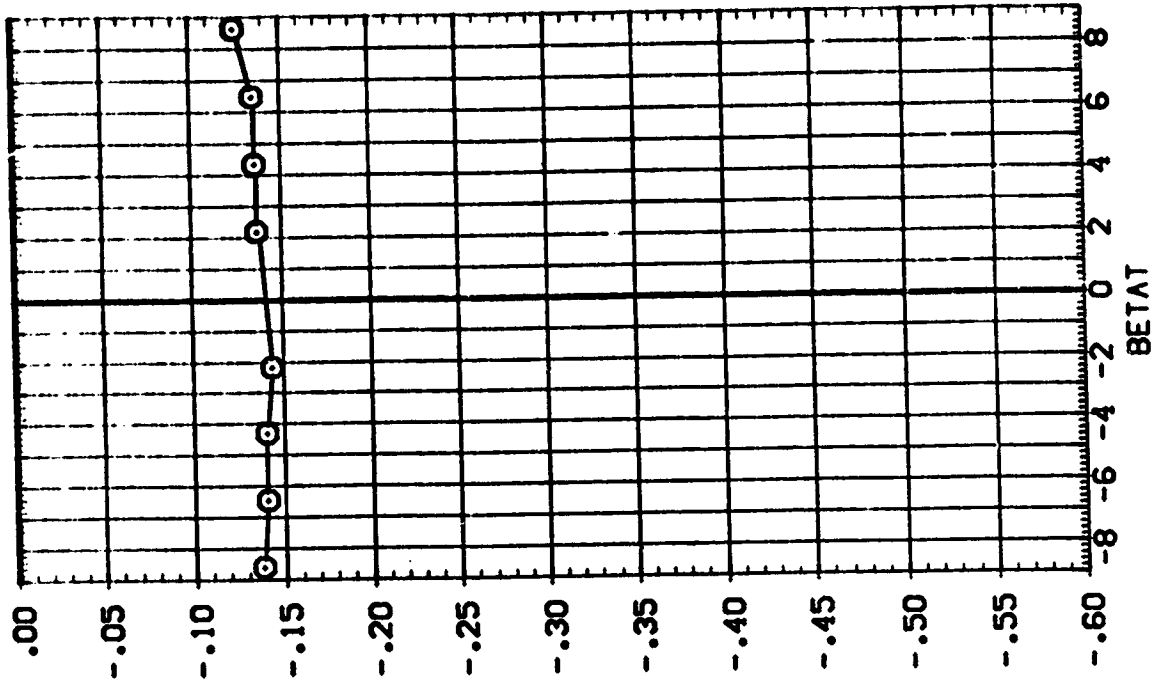
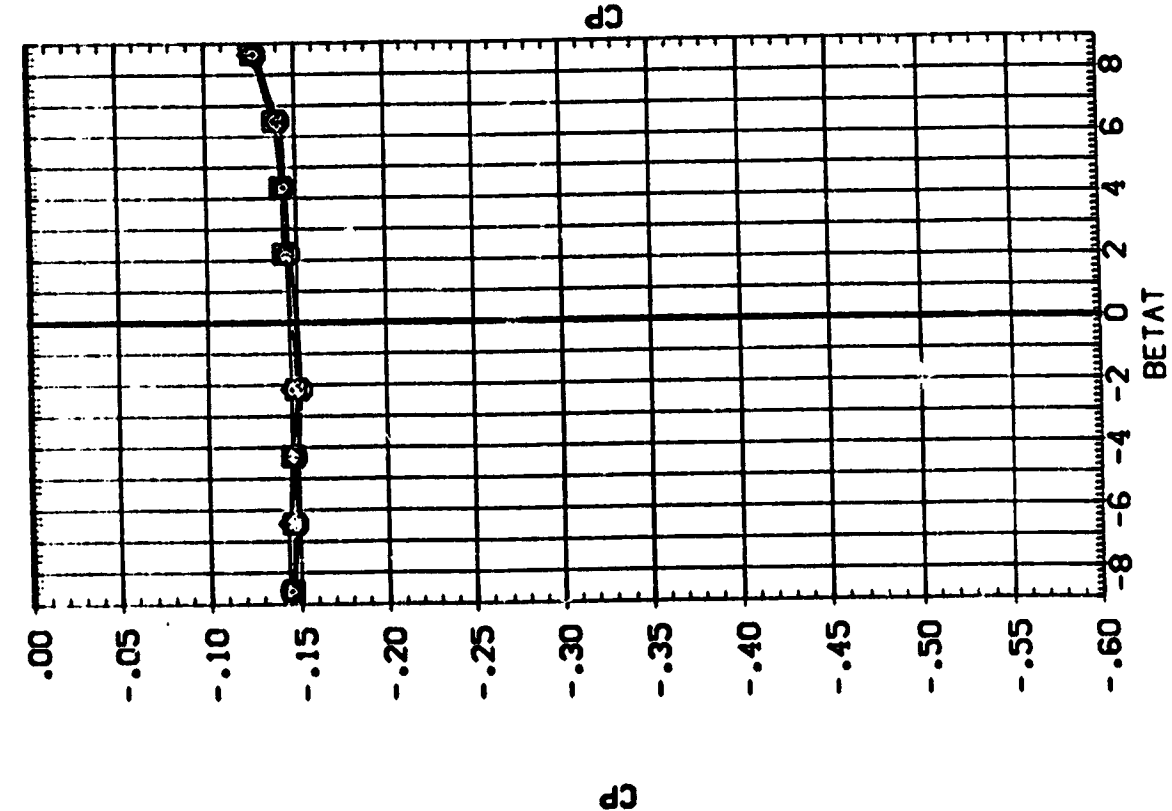
270.000

PARAMETRIC VALUES

ALPHA .000 ORBINC .500

RUDER .000 ELEVON .000

RUDER .000



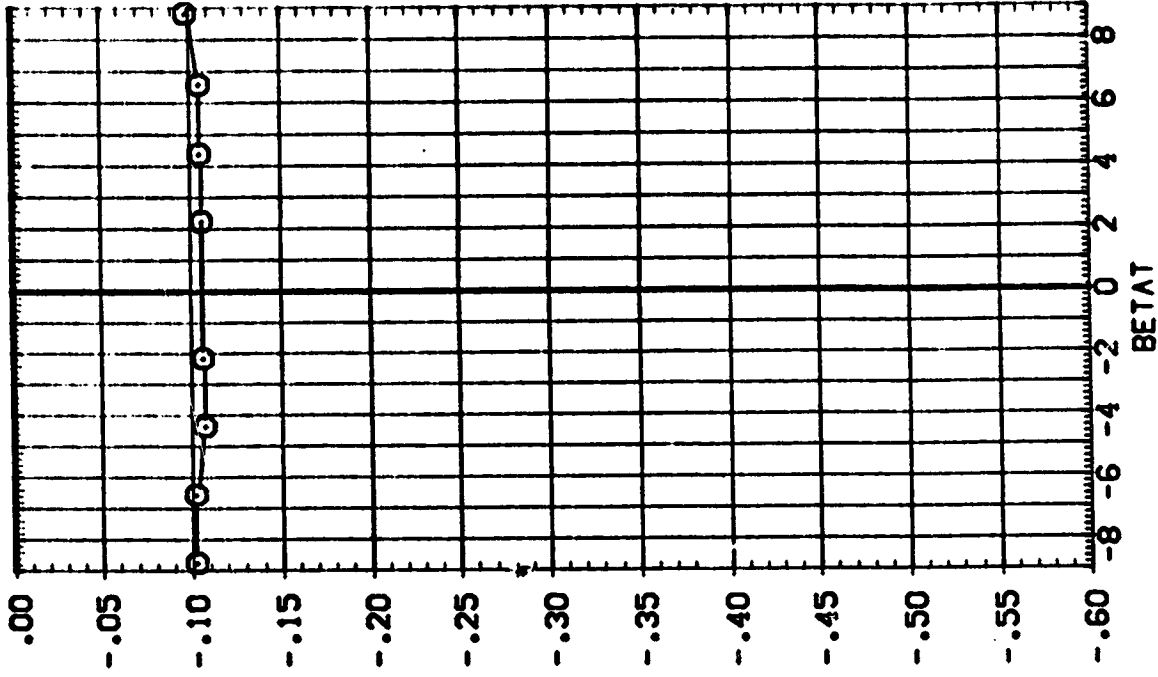
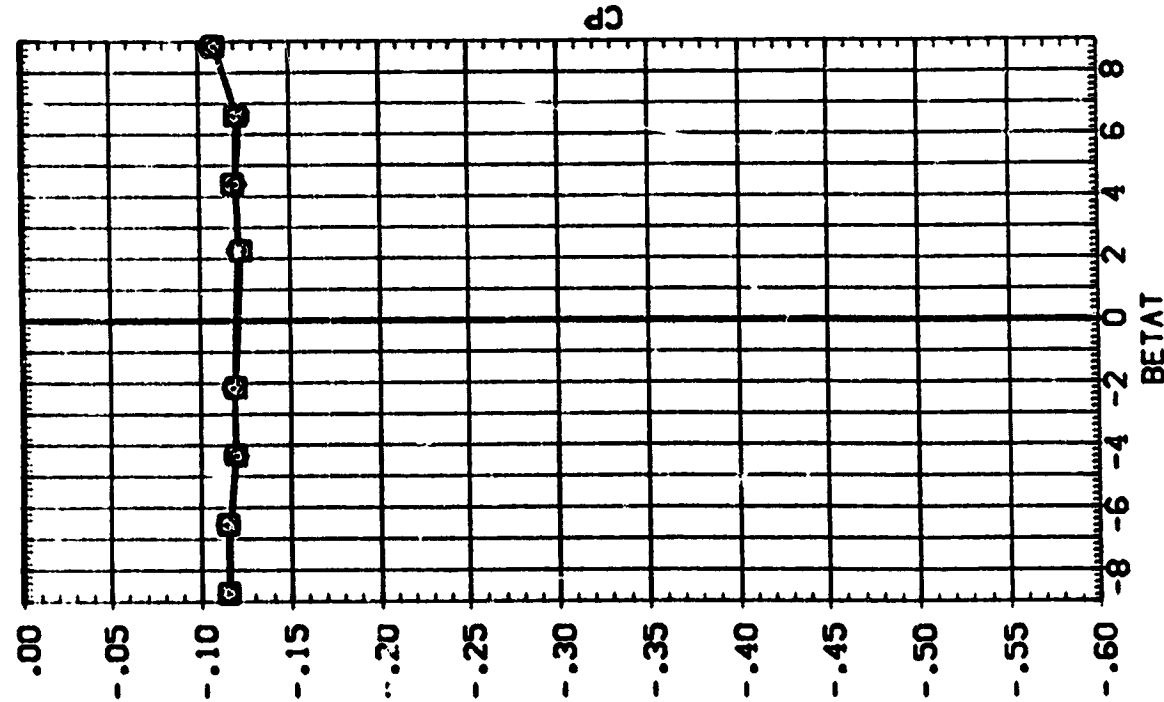
SRM BOOSTER BASE PRESSURES

SYMBOL
 O □ ◇ △

PMI
 .000
 90.000
 180.000
 270.000

X/L S MACH
 .985 3.532
 1.000

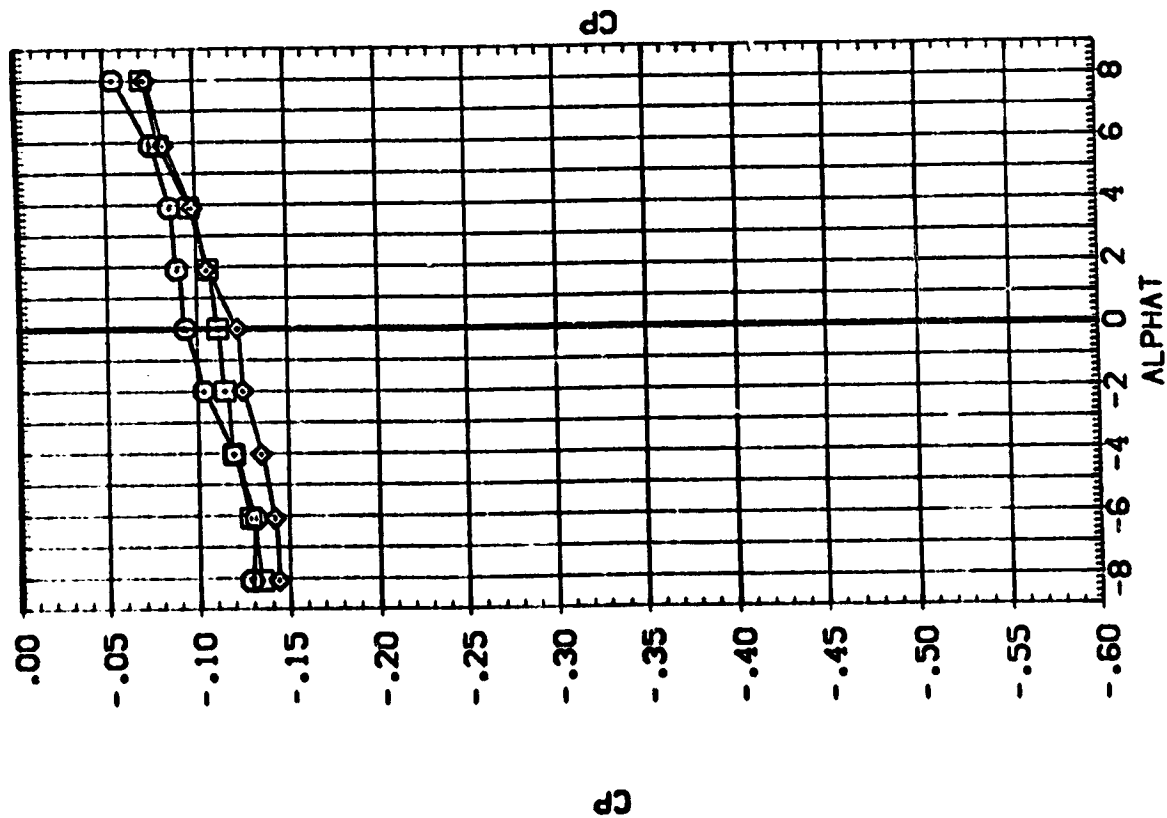
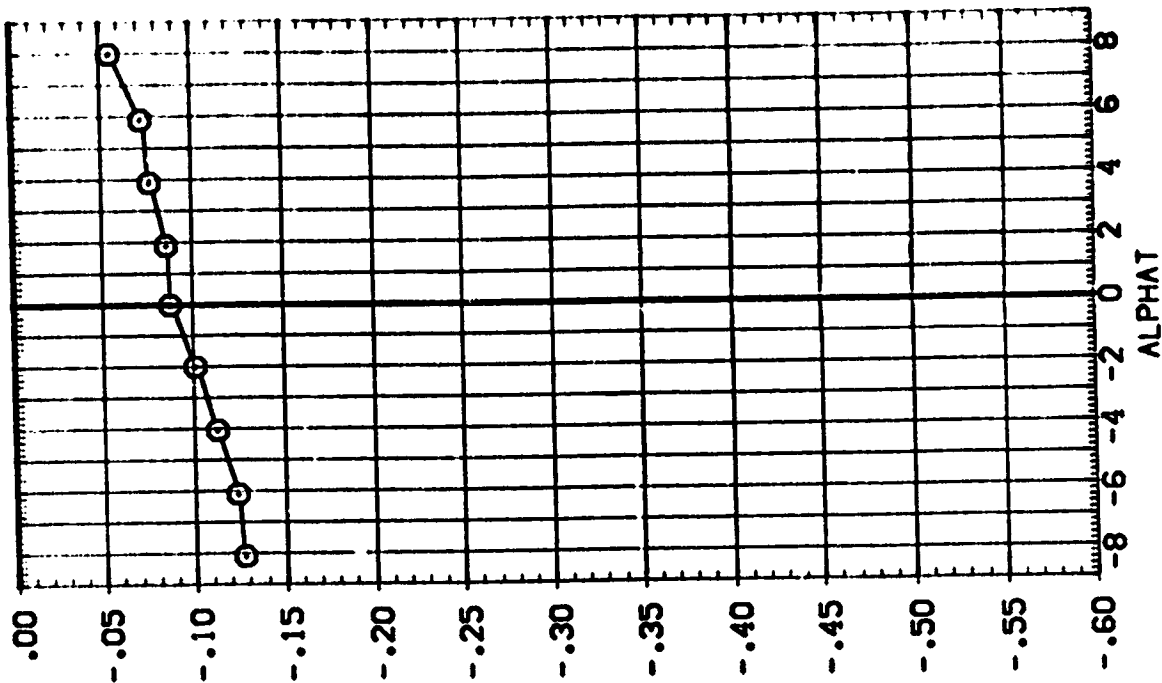
PARAMETRIC VALUES
 ALPHAT .000 ORBINC .500
 RUDDER .000 ELEVON .000
 RUDDLR .000



SRM BOOSTER BASE PRESSURES

AVES 87-707 :A9 C2A + S3 + T9 EXTERNAL TANK BASE (RBNYO1)

SYMBOL	PHI	X/L	MACH	BETAT	PARAMETRIC VALUES
0.000	.000	.977	2.498	RJODER	.000 DBINC
90.000	.000	1.000		RJOFER	.000 ELEVON
180.000					.000



EXTERNAL TANK BASE PRESSURES

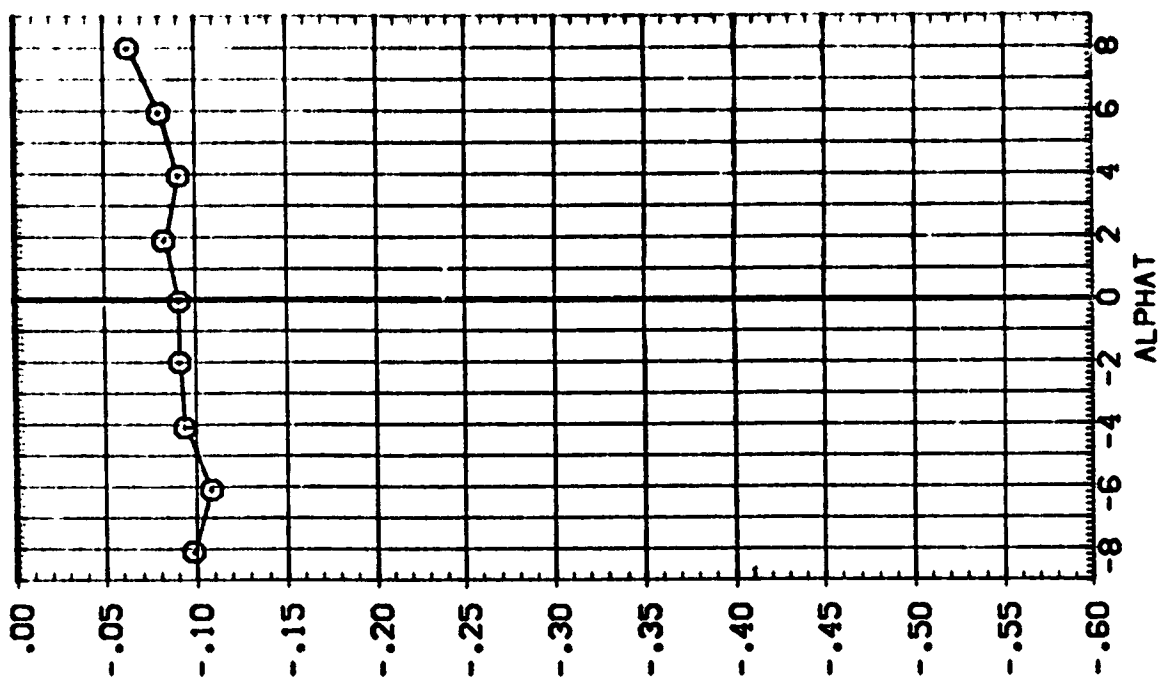
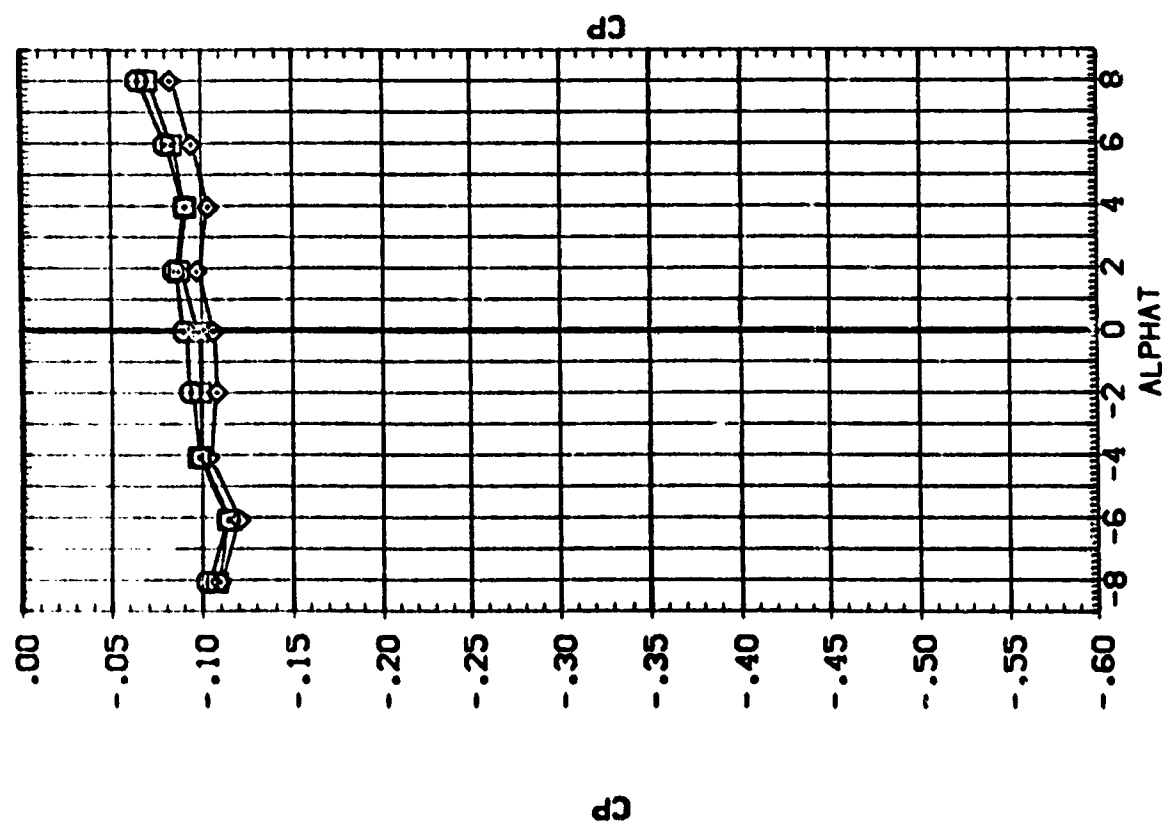
AMES 87-707 :A9 C2A + S3 + 19 EXTERNAL TANK BASE (RBNYC)

SYNCH
0.000
90.000
180.000

X/Z
.977
1.000

MACH
2.999

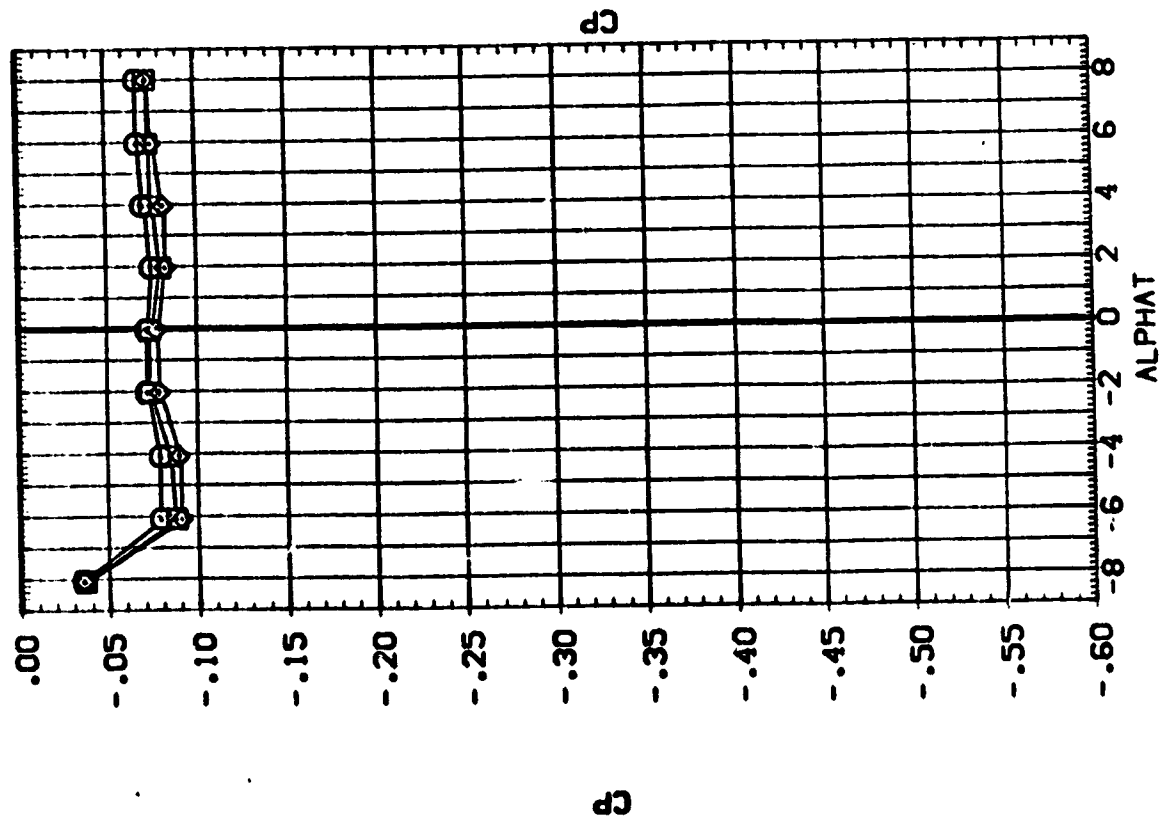
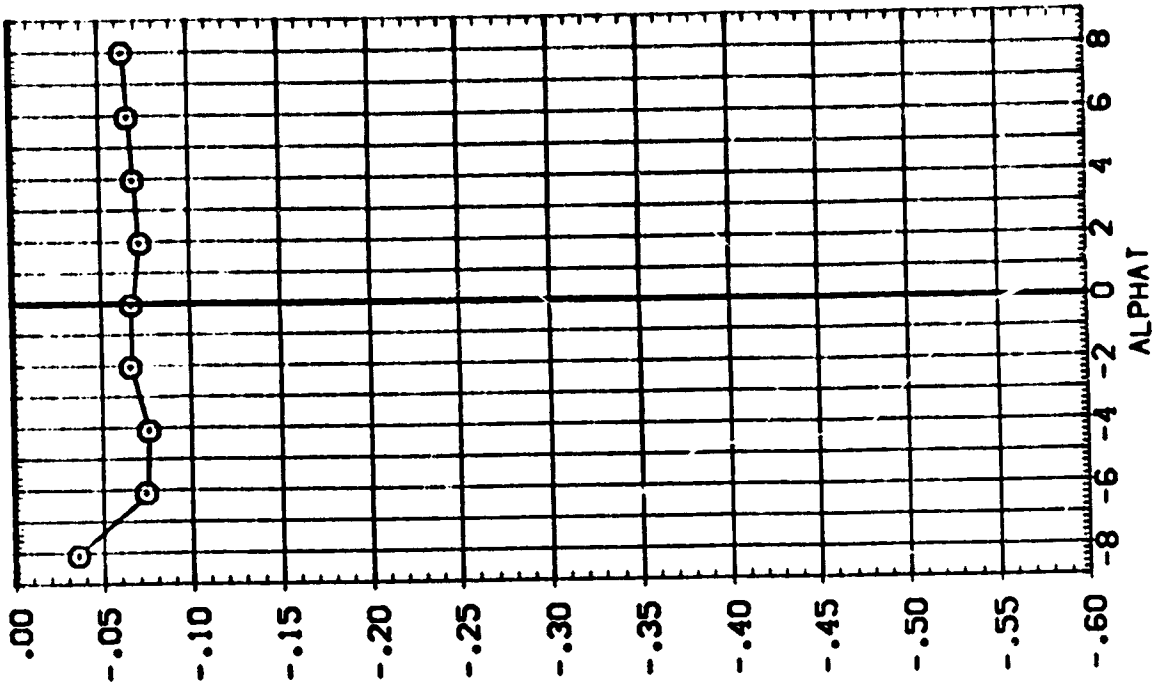
PARAMETRIC VALUES
BETAT .000 DRBINC .500
RUDDER .000 ELEVON .000
RDELTA .000



EXTERNAL TANK BASE PRESSURES

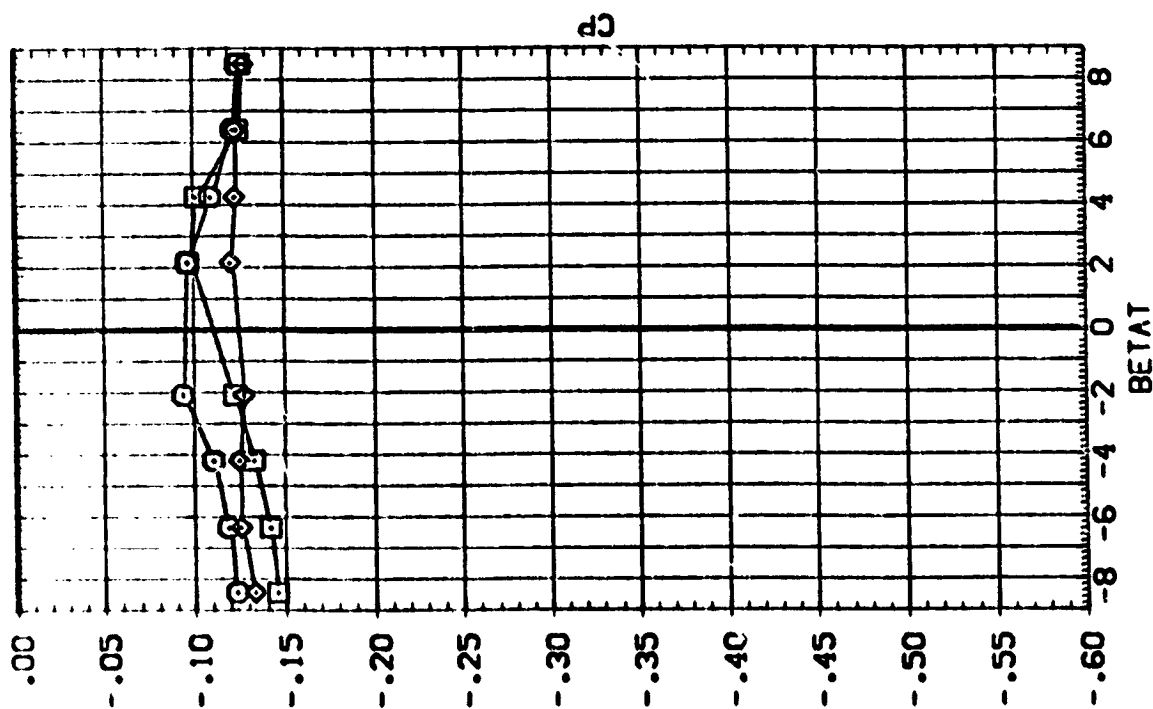
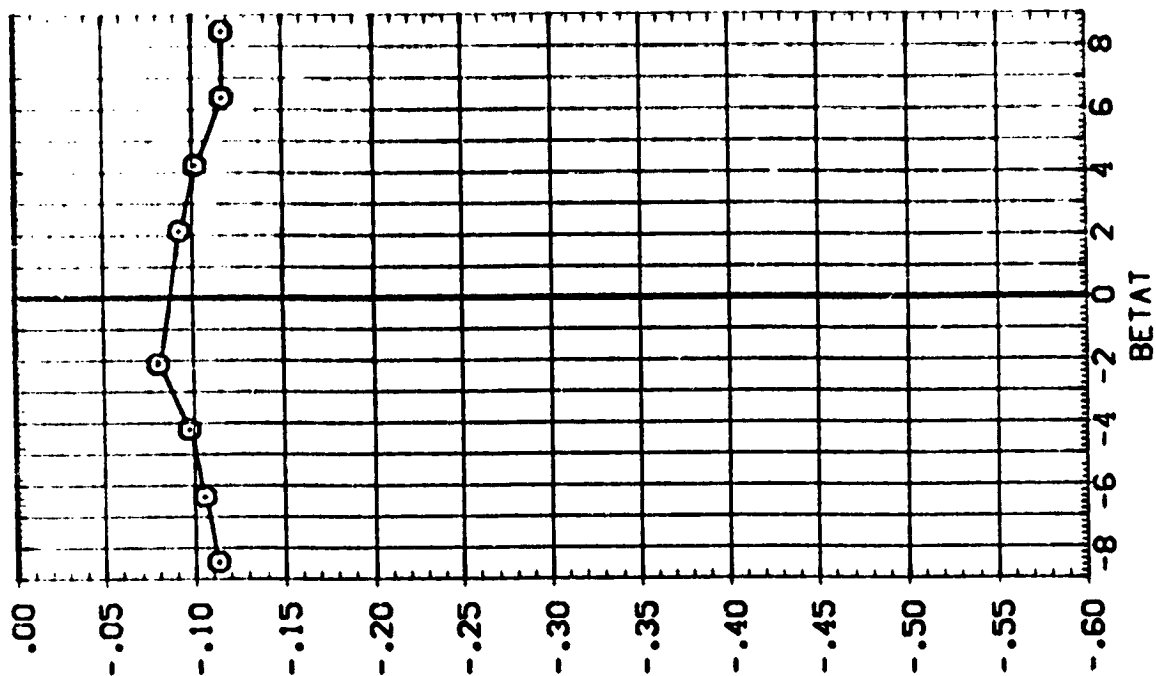
AVES 87-707 1A9 C2A + S3 + T9 EXTERNAL TANK BASE (RBNVC)

SYMBOL	PA	X/LT	MACH	PARAMETRIC VALUES
○	.000	.977	3.502	BC1AT
□	90.000	1.000		RJODER
◇	180.000			RJOFLE
				.000
				.000
				.000
				.000



PARAMETRIC VALUES
 ALPHA .000 95.111 .500
 RUDDER .000 8.121 .000
 RUDDER .000

PARAMETRIC VALUES
 ALPHA .000 95.111 .500
 RUDDER .000 8.121 .000
 RUDDER .000

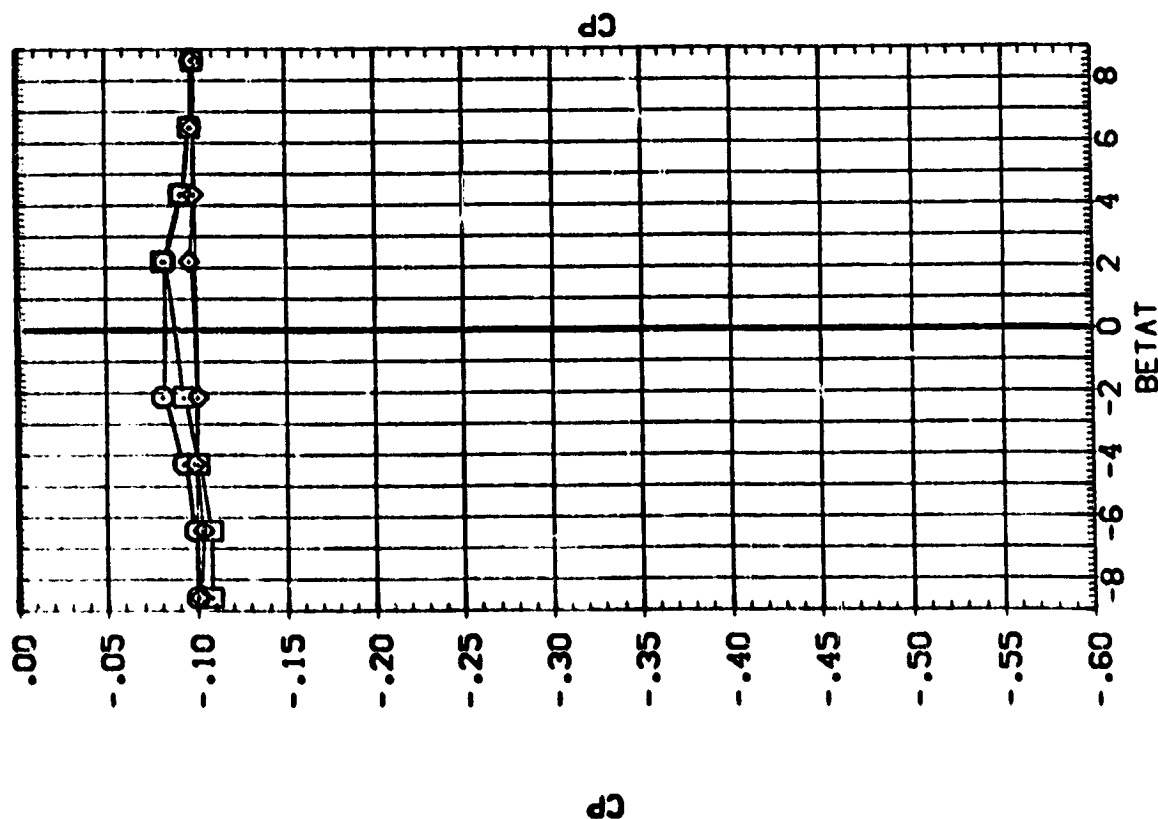
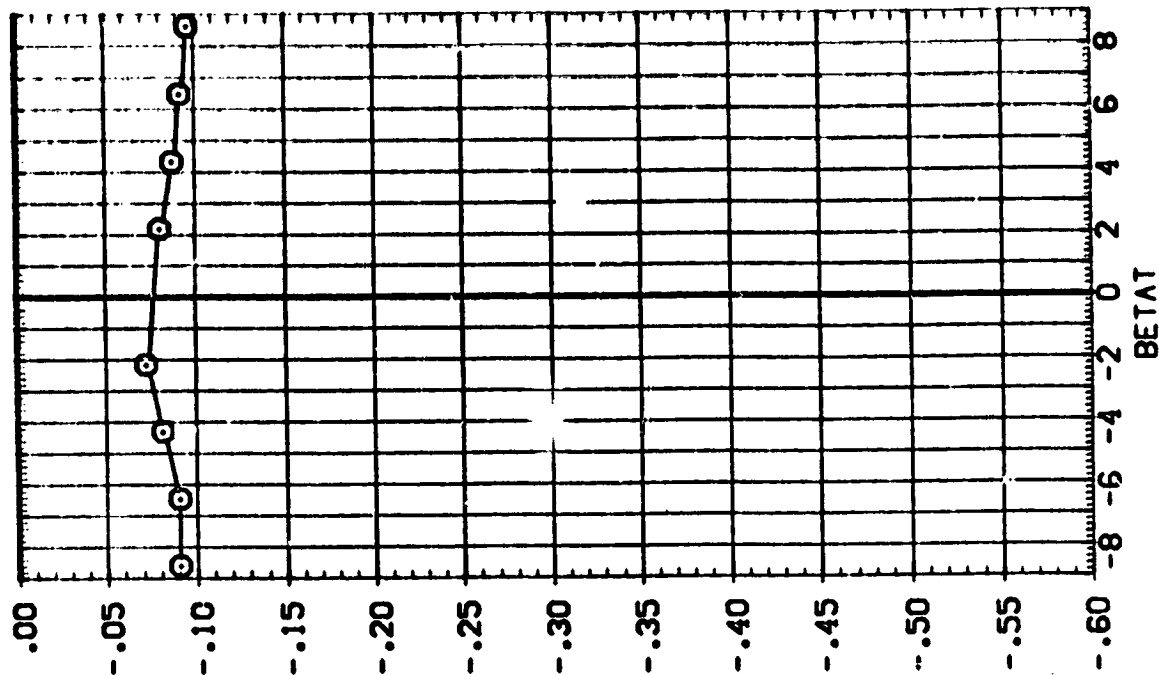


EXTERNAL TANK BASE PRESSURES

PARAMETER	VALUES
399:NC	.000 .500
ELEV	.000 .000
	.000 .000

ALPHAT
RJOJER
RJOJLR

SYMBOL	IN	X/1	MACH
□	.300	.577	2.999
□	95.000	:.000	
◇	180.000		



EXTERNAL TANK BASE PRESSURES

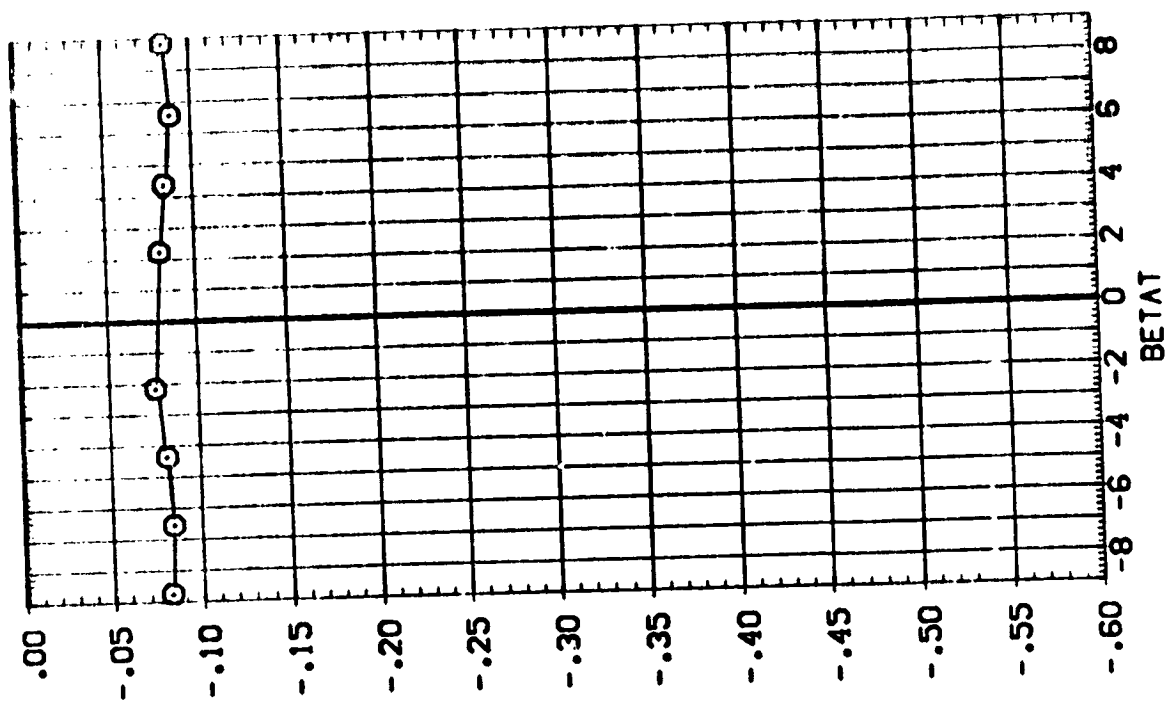
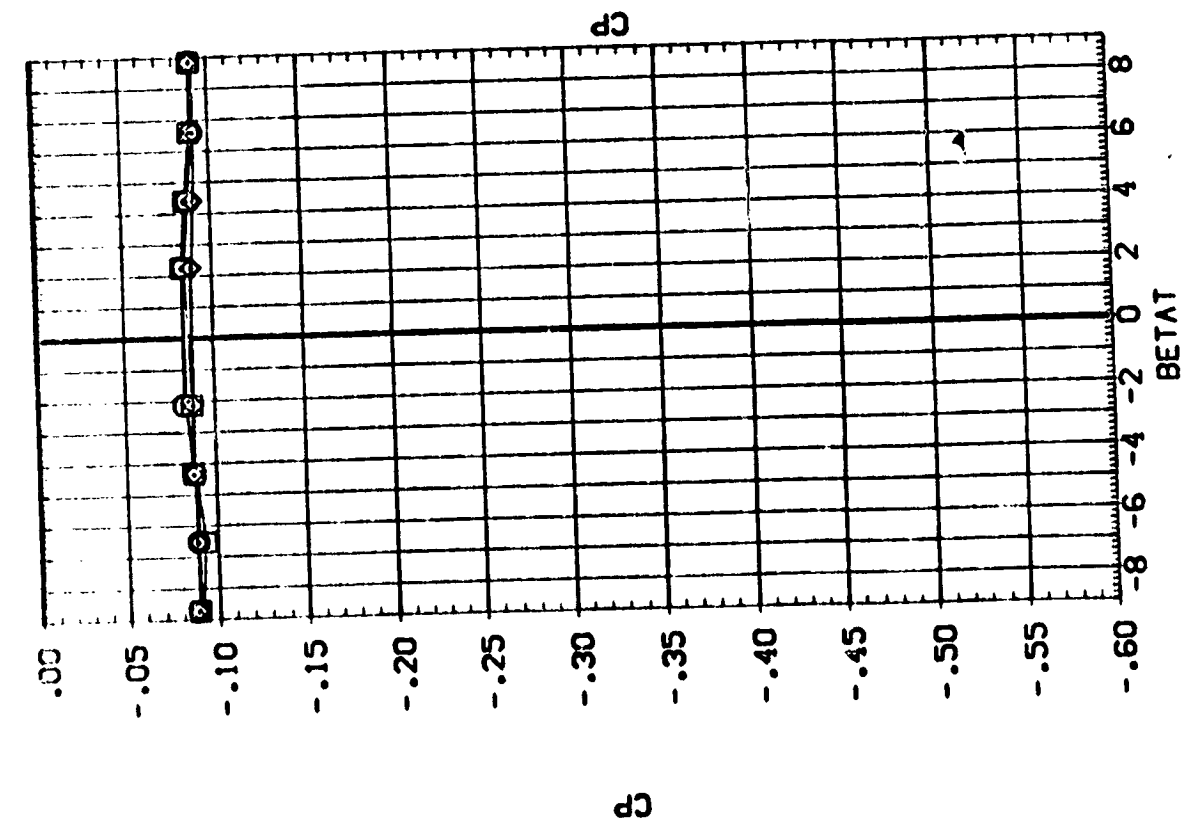
REFS 07-90-119 224 - 93 - 19 INTERNAL TANK

50000
100000
150000
200000

W/LT 1.977
W/LT 3.502

ALPHA
RUFER
RUFER

0.000
0.000
0.000
0.000



EXTERNAL TANK BASE PRESSURES